



Houston Area School Year VMT Estimates and Adjustments For Episode Analysis

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TECHNICAL NOTE
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TO: Mary McGarry-Barber, Project Manager
Texas Natural Resource Conservation Commission **DATE:** 31 August 2002

FROM: Dennis G. Perkinson, Ph.D.
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SUBJECT: Houston Area School Year VMT Estimates and Adjustments for Episode Analyses
- Revised Final (Umbrella Contract 9880077500-14: Task 1)

BACKGROUND

The Texas Natural Resource Conservation Commission (TNRCC) works with local planning districts, the Texas Department of Transportation (TxDOT), and the Texas Transportation Institute (TTI) to provide on-road mobile source inventories of air quality pollutants. TxDOT typically funds transportation conformity determinations required under 40 CFR part 93, and TNRCC typically funds mobile source inventory work in support of Federal Clean Air Act requirements for attainment of the National Ambient Air Quality Standards (NAAQS, 42 USCA 7409). Although there is already an approved State Implementation Plan (SIP) for the Houston-Galveston Area (HGA), SIP updates are planned in response to agreements made with Houston area stakeholders and based upon the SIP approach to reach attainment, mid-course review.

The Houston SIP updates may use the 1998 or the August-September 2000 Houston ozone exceedence episodes. These episodes include days both before and after the school year begins. Since the on-road activity levels, spatial distributions, and temporal distributions are impacted by the school year, analysis is required to determine the impact of the school year on the on-road inventories used to perform photochemical attainment demonstration modeling. This task provides for the preparation of vehicle miles of travel (VMT) adjustment factors and VMT estimates for school and non-school based episodes for 1998, 2000, and 2007.

A very cursory examination of the impact of the school year on traffic was performed in August of 2000. This investigation builds upon and refines that earlier preliminary analysis. Both aggregate regional data and collection station specific data are analyzed. Furthermore, the school year may actually impact traffic flows and patterns on non-school days, therefore for this

analysis, comparisons include Monday - Thursday (i.e., weekdays), Fridays, Saturdays, and Sundays.

Specifically, this task prepares VMT adjustment factors and VMT estimates for school and non-school based episodes for 1998, 2000, and 2007. The following activities are explicitly included under this task.

- Obtain the relevant TxDOT data. Analyze the data for possible use in the determination of school year adjustments. Analyze and report patterns.
- Prepare VMT adjustment factors and VMT estimates for school and non-school based episodes for 1998, 2000, and 2007. Develop an hourly level diurnal profile.
- Prepare documentation, complete and self contained, including electronic data files, consistent in format and level of detail with previous TTI reports supporting the Coastal Oxidant Assessment of Southwest Texas.

Task Deliverables

Interim deliverables are an informal Technical Note (a narrative in memorandum format that explains the task, the approaches used, and the findings) provided to the Project Manager in WordPerfect 6/7/8 format, which is supported by electronic document files. All pertinent data are being submitted in specified electronic format. (There is no FORTRAN source code or executable files developed under this task.) CD-ROM or other electronic media is used to record the final data and supporting documentation. TTI is providing five copies of the final report. One of the copies is an unbound original suitable for copying. Electronic copies of all materials related to the task report, to document results and conclusions (e.g., data, work files, text files, etc.), or developed as work products under this contract are provided as requested by TNRCC.

INTRODUCTION

The issue is the relationship between the ozone season and the start of the school year. The school year is widely believed to cause increased traffic, as well as increased peaking of existing traffic. The increased traffic is usually attributed to families taking vacation trips out of the area, while the increased peaking is usually attributed to the more flexible schedules possible when students are not required to be at school at a set time. Either of these impacts would contribute to mobile source air pollution. If either of these conditions is in fact true for a given region, a reasonable pollution reduction response might be to delay the start of the school year until after the summer ozone season. There are therefore two elements included in this investigation, the changes in traffic and changes in the distribution of traffic. Both can be addressed using currently available TxDOT data.

Data Sources

Automatic Traffic Recorder (ATR) vehicle counts are collected by TxDOT at selected locations on a continuous basis throughout Texas. These counts are available by season, month, and

weekday, as well as on an annual average daily basis (i.e., average annual daily traffic [AADT]). Since they are continuous, they are especially well suited for making seasonal and day-of-week comparisons (i.e., adjustment factors), even though there may be relatively few ATR data collection locations in any given area. Data from the ATR stations in the Houston were grouped for this analysis. These ATR count data were used to produce the episode VMT adjustment factors.

For the Houston area, ATR data collection stations for the most recently available data (i.e., 1999 and 2000) are shown in Table 1. (Note that not all stations are in operation at all times, primarily due to construction activities.) TTI has obtained the raw data collected at these sites. These data are continuous hourly directional counts.

Table 1
Houston Area (HGAC) Active ATR Data Stations

County	ATR Station	Location
Brazoria	S203	SH 288 North of SH 227
Chambers	S087	FM 562 South of SH 65
Galveston	S204	I 45 South End of Galveston Causeway
Harris	A316 S003 S125 S156 S157 S166 S182	I 45 North of FM 1960 US 290 West of FM 1960 I 10 West of SH 146 I 610 South of I 10 I 610 West of I 45 I 610 West of US 90A I 610 North end of Houston Ship Channel Bridge
Total	10	NA

Note: S087 is non-directional in 1999

S156 is inactive in 2000

A number of other Harris County stations have been inactive for the past several years.

Defining the School Year

As noted in the introduction, there are two elements to determining episode VMT for that portion of the episode when school is in session and that part of the episode when school is not in session. These two elements are the changes in traffic and changes in the distribution of traffic. Both can be addressed using the hourly ATR data and both are contingent on determining the

start of the school year. The start of school varies by school district and by year. The relevant start dates for the Houston area and associated ATR stations are shown in Table 2.

Table 2
Houston Area (HGAC) School District Start Dates

County	ATR Station	School District	1999	2000
Brazoria	S203	Danbury		
Chambers	S087	Anahuac	16 Aug	16 Aug
Galveston	S204	Galveston		
Harris	A316	Spring	11 Aug	14 Aug
	S003	Cypress / Fairbanks	11 Aug	9 Aug
	S125	Goose Creek	11 Aug	10 Aug
	S156	Houston		
	S157		16 Aug	16 Aug
	S166			
	S182			

ATR data from these 10 locations for August and September 1999 and 2000 were used to produce episode day VMT factors for the portion of the episode when school was in session and the portion when school was not in session. There were two sets of factors produced. These are shown in Tables 3 and 4. Note that in both tables different factors are provided for 1998 and 2000 versus 2007. This is due to the varying sources of VMT data and estimates. For past years Highway Performance Monitoring System (HPMS) data is available which provides an estimate of VMT. These estimates are based on AADT counts, meaning that they represent Monday through Sunday, January through December. HPMS data is not available for future years. For future years, travel demand model estimates of VMT are used. Travel model estimates of VMT are based on average non-summer weekday travel (ANSWT) counts, meaning Monday through Thursday, September through May. Though the logic and source of the factor is the same in both cases, since the units being converted are different, the factors used to convert them are different.

Table 3
HGAC Episode Day VMT Factors*
School In Session

Year	VMT	Weekday	Friday	Saturday	Sunday
1998	HPMS (AADT)	1.05372	1.15691	0.94767	0.77900
2000					
2007	Travel Model (ANSWT)	1.00097	1.09899	0.90023	0.74000

* Factors convert VMT as noted (AADT or ANSWT) to episode (August and September) days as shown.

Table 4
HGAC Episode Day VMT Factors*
School Out

Year	VMT	Weekday	Friday	Saturday	Sunday
1998	HPMS (AADT)	1.07820	1.18027	0.96692	0.81349
2000					
2007	Travel Model (ANSWT)	1.02423	1.12119	0.91851	0.77276

* Factors convert VMT as noted (AADT or ANSWT) to episode (August and September) days as shown.

This procedure and these factors are applied to produce an extensive array of VMT profiles and estimates for the two school year scenarios. Specifically, Tables 5 and 6 provide estimated VMT by county, day of week and episode year for in school and school out scenarios. Tables 7 through 10 provide hourly distributions of VMT for each day of the week for in school and school out scenarios. Finally, hourly VMT by county and episode year is provided for in-school scenarios (Tables 11 through 14) and for school-out scenarios (Tables 15 through 18).

Expanding upon the information in Tables 7 through 10, appendices containing hourly distributions of VMT by day of week and school scenario for each data collection station are provided.

Table 5
HGAC Area County August - September Episode Daily VMT
In-School

OBS	YEAR	COUNTY	VMT	WK VMT	FR VMT	SA VMT	SU VMT
1	1998	Brazoria	5,030,861	5,301,119	5,820,253	4,767,596	3,919,041
2	1998	Chambers	1,938,453	2,042,587	2,242,616	1,837,014	1,510,055
3	1998	Fort Bend	6,528,686	6,879,407	7,553,102	6,187,040	5,085,846
4	1998	Galveston	5,827,652	6,140,713	6,742,069	5,522,691	4,539,741
5	1998	Harris	85,761,450	90,368,555	99,218,279	81,273,553	66,808,170
6	1998	Liberty	1,892,801	1,994,482	2,189,800	1,793,751	1,474,492
7	1998	Montgomery	6,618,423	6,973,965	7,656,920	6,272,081	5,155,752
8	1998	Waller	1,473,008	1,552,138	1,704,138	1,395,925	1,147,473
9	2000	Brazoria	5,284,407	5,568,285	6,113,583	5,007,874	4,116,553
10	2000	Chambers	2,081,471	2,193,288	2,408,075	1,972,548	1,621,466
11	2000	Fort Bend	6,418,376	6,763,171	7,425,483	6,082,502	4,999,915
12	2000	Galveston	5,820,799	6,133,492	6,734,141	5,516,197	4,534,402
13	2000	Harris	85,667,980	90,270,064	99,110,143	81,184,975	66,735,356
14	2000	Liberty	1,923,087	2,026,395	2,224,839	1,822,452	1,498,085
15	2000	Montgomery	6,856,031	7,224,337	7,931,811	6,497,255	5,340,848
16	2000	Waller	1,626,312	1,713,677	1,881,497	1,541,207	1,266,897
17	2007	Brazoria	5,619,308	5,624,759	6,175,563	5,058,670	4,158,288
18	2007	Chambers	2,880,345	2,883,139	3,165,470	2,592,973	2,131,455
19	2007	Fort Bend	9,146,577	9,155,449	10,051,997	8,234,023	6,768,467
20	2007	Galveston	5,277,858	5,282,978	5,800,313	4,751,286	3,905,615
21	2007	Harris	97,333,009	97,427,422	106,968,004	87,622,095	72,026,427
22	2007	Liberty	2,303,573	2,305,807	2,531,604	2,073,746	1,704,644
23	2007	Montgomery	10,360,600	10,370,650	11,386,196	9,326,923	7,666,844
24	2007	Waller	1,584,355	1,585,892	1,741,190	1,426,284	1,172,423

Table 6
HGAC Area County August - September Episode Daily VMT
School-Out

OBS	YEAR	COUNTY	VMT	WK VMT	FR VMT	SA VMT	SU VMT
1	1998	Brazoria	5,030,861	5,424,274	5,937,774	4,864,440	4,092,555
2	1998	Chambers	1,938,453	2,090,040	2,287,898	1,874,329	1,576,912
3	1998	Fort Bend	6,528,686	7,039,229	7,705,612	6,312,717	5,311,021
4	1998	Galveston	5,827,652	6,283,374	6,878,203	5,634,873	4,740,737
5	1998	Harris	85,761,450	92,467,995	101,221,667	82,924,461	69,766,082
6	1998	Liberty	1,892,801	2,040,818	2,234,016	1,830,187	1,539,775
7	1998	Montgomery	6,618,423	7,135,984	7,811,526	6,399,486	5,384,021
8	1998	Waller	1,473,008	1,588,197	1,738,547	1,424,281	1,198,277
9	2000	Brazoria	5,284,407	5,697,648	6,237,027	5,109,599	4,298,812
10	2000	Chambers	2,081,471	2,244,242	2,456,698	2,012,616	1,693,256
11	2000	Fort Bend	6,418,376	6,920,293	7,575,417	6,206,056	5,221,285
12	2000	Galveston	5,820,799	6,275,985	6,870,114	5,628,247	4,735,162
13	2000	Harris	85,667,980	92,367,216	101,111,347	82,834,083	69,690,045
14	2000	Liberty	1,923,087	2,073,472	2,269,762	1,859,471	1,564,412
15	2000	Montgomery	6,856,031	7,392,173	8,091,968	6,629,233	5,577,313
16	2000	Waller	1,626,312	1,753,490	1,919,487	1,572,514	1,322,989
17	2007	Brazoria	5,619,308	5,755,464	6,300,312	5,161,391	4,342,376
18	2007	Chambers	2,880,345	2,950,136	3,229,414	2,645,626	2,225,815
19	2007	Fort Bend	9,146,577	9,368,199	10,255,051	8,401,222	7,068,109
20	2007	Galveston	5,277,858	5,405,740	5,917,482	4,847,765	4,078,518
21	2007	Harris	97,333,009	99,691,388	109,128,796	89,401,342	75,215,056
22	2007	Liberty	2,303,573	2,359,389	2,582,743	2,115,855	1,780,109
23	2007	Montgomery	10,360,600	10,611,637	11,616,201	9,516,315	8,006,257
24	2007	Waller	1,584,355	1,622,744	1,776,363	1,455,246	1,224,326

Table 7
Hourly Weekday VMT Factors

SCHOOL-In	
Variable	Mean
WK HR01	0.009278
WK HR02	0.005865
WK HR03	0.005372
WK HR04	0.004826
WK HR05	0.008278
WK HR06	0.026245
WK HR07	0.061160
WK HR08	0.075359
WK HR09	0.062373
WK HR10	0.052157
WK HR11	0.049652
WK HR12	0.051827
WK HR13	0.052936
WK HR14	0.054120
WK HR15	0.057396
WK HR16	0.063893
WK HR17	0.070466
WK HR18	0.075492
WK HR19	0.061698
WK HR20	0.046465
WK HR21	0.035669
WK HR22	0.030867
WK HR23	0.023508
WK HR24	0.015099
WK TOTAL	1.000000

SCHOOL-Out	
Variable	Mean
WK HR01	0.009826
WK HR02	0.006191
WK HR03	0.005455
WK HR04	0.004779
WK HR05	0.007954
WK HR06	0.025252
WK HR07	0.059128
WK HR08	0.074287
WK HR09	0.061049
WK HR10	0.052284
WK HR11	0.050862
WK HR12	0.052954
WK HR13	0.054053
WK HR14	0.055035
WK HR15	0.057569
WK HR16	0.062895
WK HR17	0.069977
WK HR18	0.074908
WK HR19	0.061425
WK HR20	0.046019
WK HR21	0.035763
WK HR22	0.031945
WK HR23	0.024353
WK HR24	0.016037
WK TOTAL	1.000000

Table 8
Hourly Friday VMT Factors

SCHOOL-In	
Variable	Mean
FR HR01	0.009316
FR HR02	0.006206
FR HR03	0.005883
FR HR04	0.005117
FR HR05	0.008088
FR HR06	0.023467
FR HR07	0.054563
FR HR08	0.069089
FR HR09	0.057183
FR HR10	0.048827
FR HR11	0.048181
FR HR12	0.051452
FR HR13	0.053760
FR HR14	0.054974
FR HR15	0.058657
FR HR16	0.064485
FR HR17	0.068421
FR HR18	0.070366
FR HR19	0.061069
FR HR20	0.050735
FR HR21	0.040304
FR HR22	0.034974
FR HR23	0.031110
FR HR24	0.023774
FR TOTAL	1.000000

SCHOOL-Out	
Variable	Mean
FR HR01	0.010259
FR HR02	0.006829
FR HR03	0.006428
FR HR04	0.005164
FR HR05	0.007885
FR HR06	0.022427
FR HR07	0.051344
FR HR08	0.067701
FR HR09	0.056075
FR HR10	0.049223
FR HR11	0.050129
FR HR12	0.053449
FR HR13	0.054742
FR HR14	0.055517
FR HR15	0.058154
FR HR16	0.063594
FR HR17	0.067006
FR HR18	0.068615
FR HR19	0.059684
FR HR20	0.050169
FR HR21	0.040368
FR HR22	0.036756
FR HR23	0.032549
FR HR24	0.025934
FR TOTAL	1.000000

Table 9

Hourly Saturday VMT Factors

SCHOOL-In	
Variable	Mean
SA HR01	0.019327
SA HR02	0.013038
SA HR03	0.011904
SA HR04	0.007967
SA HR05	0.008304
SA HR06	0.015477
SA HR07	0.026668
SA HR08	0.035521
SA HR09	0.043301
SA HR10	0.050457
SA HR11	0.056475
SA HR12	0.060958
SA HR13	0.064129
SA HR14	0.063991
SA HR15	0.064126
SA HR16	0.064515
SA HR17	0.063388
SA HR18	0.062759
SA HR19	0.060195
SA HR20	0.052988
SA HR21	0.045846
SA HR22	0.041382
SA HR23	0.037529
SA HR24	0.029755
SA TOTAL	1.000000

SCHOOL-Out	
Variable	Mean
SA HR01	0.020949
SA HR02	0.013746
SA HR03	0.012660
SA HR04	0.008072
SA HR05	0.008360
SA HR06	0.015676
SA HR07	0.026529
SA HR08	0.034074
SA HR09	0.041193
SA HR10	0.049116
SA HR11	0.055417
SA HR12	0.059943
SA HR13	0.062846
SA HR14	0.062791
SA HR15	0.063739
SA HR16	0.064120
SA HR17	0.062801
SA HR18	0.062045
SA HR19	0.060309
SA HR20	0.052812
SA HR21	0.045939
SA HR22	0.044487
SA HR23	0.040824
SA HR24	0.031552
SA TOTAL	1.000000

Table 10
Hourly Sunday VMT Factors

SCHOOL-In	
Variable	Mean
SU HR01	0.026816
SU HR02	0.018759
SU HR03	0.017520
SU HR04	0.010734
SU HR05	0.008230
SU HR06	0.010920
SU HR07	0.016364
SU HR08	0.020739
SU HR09	0.027436
SU HR10	0.040886
SU HR11	0.051572
SU HR12	0.057291
SU HR13	0.065865
SU HR14	0.070460
SU HR15	0.071249
SU HR16	0.070703
SU HR17	0.069885
SU HR18	0.070571
SU HR19	0.067972
SU HR20	0.058381
SU HR21	0.051037
SU HR22	0.042135
SU HR23	0.032264
SU HR24	0.022212
SU TOTAL	1.000000

SCHOOL-Out	
Variable	Mean
SU HR01	0.026789
SU HR02	0.019108
SU HR03	0.018472
SU HR04	0.010851
SU HR05	0.008378
SU HR06	0.011016
SU HR07	0.016598
SU HR08	0.020501
SU HR09	0.026416
SU HR10	0.039591
SU HR11	0.049812
SU HR12	0.056586
SU HR13	0.064625
SU HR14	0.069898
SU HR15	0.071356
SU HR16	0.071830
SU HR17	0.070748
SU HR18	0.069011
SU HR19	0.066884
SU HR20	0.057142
SU HR21	0.051536
SU HR22	0.045612
SU HR23	0.034694
SU HR24	0.022546
SU TOTAL	1.000000

Table 11
Weekday In-School Episode Hourly VMT by Year and County

OBS	YEAR	COUNTY	WKVMT	WKVMT01	WKVMT02	WKVMT03	WKVMT04	WKVMT05	WKVMT06	WKVMT07
1	1998	Brazoria	5,301,119	49,184	31,091	28,478	25,583	43,883	139,128	324,216
2	1998	Chambers	2,042,587	18,951	11,980	10,973	9,858	16,909	53,608	124,925
3	1998	Fort Bend	6,879,407	63,827	40,348	36,956	33,200	56,948	180,550	420,745
4	1998	Galveston	6,140,713	56,974	36,015	32,988	29,635	50,833	161,163	375,566
5	1998	Harris	90,368,555	838,439	530,012	485,460	436,119	748,071	2,371,723	5,526,941
6	1998	Liberty	1,994,482	18,505	11,698	10,714	9,625	16,510	52,345	121,983
7	1998	Montgomery	6,973,965	64,704	40,902	37,464	33,656	57,730	183,032	426,528
8	1998	Waller	1,552,138	14,401	9,103	8,338	7,491	12,849	40,736	94,929
9	2000	Brazoria	5,568,285	51,663	32,658	29,913	26,873	46,094	146,140	340,556
10	2000	Chambers	2,193,288	20,349	12,864	11,782	10,585	18,156	57,563	134,141
11	2000	Fort Bend	6,763,171	62,749	39,666	36,332	32,639	55,986	177,499	413,636
12	2000	Galveston	6,133,492	56,907	35,973	32,949	29,600	50,773	160,974	375,124
13	2000	Harris	90,270,064	837,526	529,434	484,931	435,643	747,256	2,369,138	5,520,917
14	2000	Liberty	2,026,395	18,801	11,885	10,886	9,779	16,774	53,183	123,934
15	2000	Montgomery	7,224,337	67,027	42,371	38,809	34,865	59,803	189,603	441,840
16	2000	Waller	1,713,677	15,899	10,051	9,206	8,270	14,186	44,975	104,809
17	2007	Brazoria	5,624,759	52,187	32,989	30,216	27,145	46,562	147,622	344,010
18	2007	Chambers	2,883,139	26,750	16,910	15,488	13,914	23,867	75,668	176,333
19	2007	Fort Bend	9,155,449	84,944	53,697	49,183	44,184	75,789	240,285	559,947
20	2007	Galveston	5,282,978	49,015	30,985	28,380	25,496	43,732	138,652	323,107
21	2007	Harris	97,427,422	903,932	571,412	523,380	470,185	806,504	2,556,983	5,958,661
22	2007	Liberty	2,305,807	21,393	13,524	12,387	11,128	19,087	60,516	141,023
23	2007	Montgomery	10,370,650	96,219	60,824	55,711	50,049	85,848	272,178	634,269
24	2007	Waller	1,585,892	14,714	9,301	8,519	7,654	13,128	41,622	96,993

Table 11
Weekday In-School Episode Hourly VMT by Year and County (continued)

OBS	WKVMT08	WKVMT09	WKVMT10	WKVMT11	WKVMT12	WKVMT13	WKVMT14	WKVMT15	WKVMT16
1	399,487	330,647	276,490	263,211	274,741	280,620	286,897	304,263	338,704
2	153,927	127,402	106,535	101,419	105,861	108,126	110,545	117,236	130,507
3	518,425	429,089	358,809	341,576	356,539	364,168	372,314	394,850	439,546
4	462,758	383,015	320,281	304,899	318,255	325,065	332,335	352,452	392,349
5	6,810,084	5,636,558	4,713,353	4,486,979	4,683,531	4,783,750	4,890,746	5,186,794	5,773,918
6	150,302	124,402	104,026	99,030	103,368	105,580	107,941	114,475	127,433
7	525,551	434,987	363,741	346,271	361,440	369,174	377,431	400,278	445,588
8	116,968	96,812	80,955	77,067	80,443	82,164	84,002	89,087	99,171
14	419,620	347,311	290,425	276,477	288,588	294,763	301,356	319,597	355,774
	165,284	136,802	114,395	108,901	113,672	116,104	118,701	125,886	140,136
	509,666	421,839	352,747	335,805	350,515	358,015	366,023	388,179	432,119
	462,214	382,564	319,905	304,540	317,881	324,683	331,945	352,038	391,887
	6,802,662	5,630,415	4,708,216	4,482,089	4,678,427	4,778,536	4,885,416	5,181,141	5,767,625
	152,707	126,392	105,691	100,615	105,022	107,269	109,669	116,307	129,472
	544,419	450,604	376,800	358,703	374,416	382,428	390,981	414,648	461,585
	129,141	106,887	89,380	85,088	88,815	90,715	92,744	98,358	109,492
	423,876	350,833	293,371	279,281	291,514	297,752	304,412	322,839	359,383
	217,270	179,830	150,376	143,154	149,424	152,622	156,035	165,481	184,212
	689,945	571,053	477,521	454,586	474,499	484,653	495,493	525,486	584,969
	398,120	329,515	275,544	262,310	273,801	279,660	285,915	303,222	337,545
	7,342,033	6,076,841	5,081,522	4,837,466	5,049,371	5,157,418	5,272,772	5,591,944	6,224,930
	173,763	143,820	120,264	114,488	119,503	122,060	124,790	132,344	147,325
	781,522	646,849	540,902	514,924	537,480	548,981	561,260	595,234	662,612
	119,511	98,917	82,715	78,743	82,192	83,951	85,828	91,024	101,327

Table 11
Weekday In-School Episode Hourly VMT by Year and County (continued)

OBS	WKVMT17	WKVMT18	WKVMT19	WKVMT20	WKVMT21	WKVMT22	WKVMT23	WKVMT24
1	373,549	400,187	327,068	246,316	189,086	163,630	124,619	80,042
2	143,933	154,197	126,024	94,909	72,857	63,049	48,017	30,841
3	484,764	519,333	424,446	319,652	245,382	212,347	161,721	103,872
4	432,712	463,569	378,870	285,328	219,033	189,545	144,356	92,719
5	6,367,911	6,822,013	5,575,559	4,198,975	3,223,356	2,789,406	2,124,384	1,364,475
6	140,543	150,565	123,056	92,674	71,141	61,564	46,886	30,115
7	491,427	526,472	430,280	324,045	248,754	215,265	163,944	105,300
8	109,373	117,172	95,764	72,120	55,363	47,910	36,488	23,436
9	392,375	420,355	343,552	258,730	198,615	171,876	130,899	84,076
10	154,552	165,573	135,321	101,911	78,232	67,700	51,560	33,116
11	476,574	510,559	417,274	314,251	241,236	208,759	158,989	102,117
12	432,203	463,023	378,424	284,993	218,776	189,323	144,186	92,610
13	6,360,970	6,814,577	5,569,482	4,194,399	3,219,843	2,786,366	2,122,069	1,362,988
14	142,792	152,975	125,025	94,156	72,279	62,549	47,636	30,597
15	509,070	545,372	445,727	335,679	257,685	222,994	169,830	109,080
16	120,756	129,367	105,730	79,626	61,125	52,896	40,285	25,875
17	396,354	424,619	347,036	261,354	200,630	173,619	132,227	84,928
18	203,163	217,651	177,884	133,965	102,839	88,994	67,777	43,533
19	645,148	691,154	564,873	425,408	326,566	282,601	215,226	138,238
20	372,270	398,817	325,949	245,474	188,439	163,070	124,192	79,768
21	6,865,321	7,354,894	6,011,077	4,526,965	3,475,139	3,007,292	2,290,324	1,471,057
22	162,481	174,068	142,264	107,139	82,246	71,173	54,205	34,815
23	730,778	782,891	639,848	481,872	369,911	320,111	243,793	156,586
24	111,751	119,721	97,846	73,688	56,567	48,952	37,281	23,945

Table 12
Friday In-School Episode Hourly VMT by Year and County

OBS	YEAR	COUNTY	FRVMT	FRVMT01	FRVMT02	FRVMT03	FRVMT04	FRVMT05	FRVMT06	FRVMT07
1	1998	Brazoria	5,820,253	54,221	36,120	34,241	29,782	47,074	136,584	317,570
2	1998	Chambers	2,242,616	20,892	13,918	13,193	11,475	18,138	52,627	122,364
3	1998	Fort Bend	7,553,102	70,365	46,875	44,435	38,649	61,089	177,249	412,120
4	1998	Galveston	6,742,069	62,809	41,841	39,664	34,499	54,530	158,216	367,868
5	1998	Harris	99,218,279	924,317	615,749	583,701	507,700	802,477	2,328,355	5,413,647
6	1998	Liberty	2,189,800	20,400	13,590	12,883	11,205	17,711	51,388	119,482
7	1998	Montgomery	7,656,920	71,332	47,519	45,046	39,180	61,929	179,685	417,785
8	1998	Waller	1,704,138	15,876	10,576	10,025	8,720	13,783	39,991	92,983
9	2000	Brazoria	6,113,583	56,954	37,941	35,966	31,283	49,447	143,467	333,575
10	2000	Chambers	2,408,075	22,434	14,945	14,167	12,322	19,477	56,510	131,392
11	2000	Fort Bend	7,425,483	69,176	46,083	43,684	37,996	60,057	174,254	405,157
12	2000	Galveston	6,734,141	62,735	41,792	39,617	34,459	54,466	158,030	367,435
13	2000	Harris	99,110,143	923,310	615,078	583,065	507,147	801,603	2,325,818	5,407,747
14	2000	Liberty	2,224,839	20,727	13,807	13,089	11,384	17,994	52,210	121,394
15	2000	Montgomery	7,931,811	73,893	49,225	46,663	40,587	64,152	186,136	432,783
16	2000	Waller	1,881,497	17,528	11,677	11,069	9,628	15,218	44,153	102,660
17	2007	Brazoria	6,175,563	57,532	38,326	36,331	31,600	49,948	144,922	336,957
18	2007	Chambers	3,165,470	29,490	19,645	18,622	16,198	25,602	74,284	172,718
19	2007	Fort Bend	10,051,997	93,644	62,383	59,136	51,436	81,301	235,890	548,467
20	2007	Galveston	5,800,313	54,036	35,997	34,123	29,680	46,913	136,116	316,482
21	2007	Harris	106,968,004	996,514	663,843	629,293	547,355	865,157	2,510,218	5,836,495
22	2007	Liberty	2,531,604	23,584	15,711	14,893	12,954	20,476	59,409	138,132
23	2007	Montgomery	11,386,196	106,074	70,663	66,985	58,263	92,092	267,200	621,265
24	2007	Waller	1,741,190	16,221	10,806	10,243	8,910	14,083	40,861	95,005

Table 12
Friday In-School Episode Hourly VMT by Year and County (continued)

OBS	FRVMT08	FRVMT09	FRVMT10	FRVMT11	FRVMT12	FRVMT13	FRVMT14	FRVMT15	FRVMT16
1	402,115	332,820	284,186	280,426	299,464	312,897	319,963	341,399	375,319
2	154,940	128,239	109,500	108,051	115,387	120,563	123,286	131,545	144,615
3	521,836	431,909	368,795	363,916	388,622	406,055	415,224	443,042	487,062
4	465,803	385,532	329,195	324,840	346,893	362,454	370,638	395,470	434,762
5	6,854,892	5,673,599	4,844,531	4,780,436	5,104,979	5,333,975	5,454,426	5,819,847	6,398,091
6	151,291	125,219	106,921	105,507	112,670	117,724	120,382	128,447	141,209
7	529,009	437,846	373,864	368,918	393,964	411,636	420,932	449,132	493,756
8	117,737	97,448	83,208	82,107	87,681	91,614	93,683	99,960	109,891
9	422,381	349,593	298,508	294,559	314,556	328,666	336,088	358,604	394,234
10	166,371	137,701	117,579	116,023	123,900	129,458	132,381	141,250	155,285
11	513,019	424,611	362,564	357,767	382,056	399,194	408,209	435,557	478,832
12	465,255	385,078	328,808	324,458	346,485	362,027	370,203	395,004	434,251
13	6,847,421	5,667,415	4,839,251	4,775,226	5,099,415	5,328,161	5,448,481	5,813,504	6,391,118
14	153,712	127,223	108,632	107,195	114,472	119,607	122,308	130,502	143,469
15	548,001	453,565	387,287	382,163	408,108	426,414	436,043	465,256	511,483
16	129,991	107,590	91,868	90,652	96,807	101,149	103,433	110,363	121,328
17	426,663	353,137	301,534	297,545	317,745	331,998	339,495	362,240	398,231
18	218,699	181,011	154,560	152,516	162,870	170,176	174,019	185,677	204,125
19	694,482	574,803	490,809	484,315	517,195	540,395	552,598	589,620	648,203
20	400,738	331,679	283,212	279,465	298,438	311,825	318,866	340,229	374,033
21	7,390,312	6,116,751	5,222,927	5,153,825	5,503,718	5,750,600	5,880,459	6,274,422	6,897,832
22	174,906	144,765	123,611	121,975	130,256	136,099	139,172	148,496	163,250
23	786,661	651,097	555,954	548,598	585,843	612,122	625,945	667,880	734,239
24	120,297	99,566	85,017	83,892	89,588	93,606	95,720	102,133	112,281

Table 12
Friday In-School Episode Hourly VMT by Year and County (continued)

OBS	FRVMT17	FRVMT18	FRVMT19	FRVMT20	FRVMT21	FRVMT22	FRVMT23	FRVMT24
1	398,228	409,542	355,437	295,291	234,579	203,558	181,068	138,371
2	153,442	157,802	136,954	113,779	90,386	78,433	69,768	53,316
3	516,791	531,474	461,260	383,207	304,420	264,162	234,977	179,567
4	461,299	474,406	411,731	342,059	271,732	235,797	209,746	160,286
5	6,788,614	6,981,494	6,059,161	5,033,839	3,998,894	3,470,060	3,086,681	2,358,815
6	149,828	154,085	133,729	111,100	88,258	76,586	68,125	52,060
7	523,894	538,779	467,600	388,474	308,604	267,793	238,207	182,036
8	116,599	119,912	104,070	86,459	68,684	59,601	53,016	40,514
9	418,297	430,182	373,350	310,173	246,402	213,816	190,194	145,344
10	164,763	169,444	147,059	122,174	97,055	84,220	74,915	57,250
11	508,059	522,494	453,467	376,732	299,277	259,699	231,007	176,533
12	460,757	473,848	411,247	341,657	271,413	235,520	209,499	160,097
13	6,781,215	6,973,885	6,052,557	5,028,353	3,994,535	3,466,278	3,083,317	2,356,245
14	152,226	156,551	135,869	112,877	89,670	77,812	69,215	52,893
15	542,702	558,122	484,388	402,420	319,684	277,407	246,759	188,571
16	128,734	132,392	114,901	95,458	75,832	65,803	58,533	44,731
17	422,538	434,544	377,135	313,317	248,900	215,984	192,122	146,818
18	216,585	222,738	193,312	160,600	127,581	110,709	98,478	75,256
19	687,768	707,309	613,865	509,988	405,136	351,559	312,718	238,976
20	396,863	408,139	354,219	294,279	233,776	202,860	180,448	137,897
21	7,318,858	7,526,804	6,532,429	5,427,022	4,311,238	3,741,099	3,327,775	2,543,057
22	173,215	178,136	154,603	128,441	102,034	88,540	78,758	60,186
23	779,055	801,190	695,344	577,679	458,909	398,221	354,225	270,695
24	119,134	122,519	106,333	88,339	70,177	60,896	54,168	41,395

Table 13
Saturday In-School Episode Hourly VMT by Year and County

OBS	YEAR	COUNTY	SAVMT	SAVMT01	SAVMT02	SAVMT03	SAVMT04	SAVMT05	SAVMT06	SAVMT07
1	1998	Brazoria	4,767,596	92,143	62,160	56,753	37,983	39,590	73,788	127,142
2	1998	Chambers	1,837,014	35,504	23,951	21,868	14,635	15,255	28,431	48,989
3	1998	Fort Bend	6,187,040	119,577	80,667	73,651	49,292	51,377	95,757	164,996
4	1998	Galveston	5,522,691	106,737	72,005	65,742	43,999	45,860	85,475	147,279
5	1998	Harris	81,273,553	1,570,774	1,059,645	967,480	647,506	674,896	1,257,871	2,167,403
6	1998	Liberty	1,793,751	34,668	23,387	21,353	14,291	14,895	27,762	47,836
7	1998	Montgomery	6,272,081	121,221	81,775	74,663	49,970	52,083	97,073	167,264
8	1998	Waller	1,395,925	26,979	18,200	16,617	11,121	11,592	21,605	37,227
9	2000	Brazoria	5,007,874	96,787	65,293	59,614	39,898	41,585	77,507	133,550
10	2000	Chambers	1,972,548	38,123	25,718	23,481	15,715	16,380	30,529	52,604
11	2000	Fort Bend	6,082,502	117,557	79,304	72,406	48,459	50,509	94,139	162,208
12	2000	Galveston	5,516,197	106,612	71,920	65,665	43,948	45,806	85,374	147,106
13	2000	Harris	81,184,975	1,569,062	1,058,490	966,426	646,801	674,160	1,256,500	2,165,041
14	2000	Liberty	1,822,452	35,223	23,761	21,694	14,519	15,134	28,206	48,601
15	2000	Montgomery	6,497,255	125,572	84,711	77,343	51,764	53,953	100,558	173,269
16	2000	Waller	1,541,207	29,787	20,094	18,347	12,279	12,798	23,853	41,101
17	2007	Brazoria	5,058,670	97,769	65,955	60,218	40,302	42,007	78,293	134,905
18	2007	Chambers	2,592,973	50,114	33,807	30,867	20,658	21,532	40,131	69,149
19	2007	Fort Bend	8,234,023	159,139	107,355	98,018	65,600	68,375	127,438	219,585
20	2007	Galveston	4,751,286	91,828	61,947	56,559	37,853	39,455	73,536	126,707
21	2007	Harris	87,622,095	1,693,472	1,142,417	1,043,053	698,085	727,614	1,356,127	2,336,706
22	2007	Liberty	2,073,746	40,079	27,037	24,686	16,522	17,220	32,095	55,303
23	2007	Montgomery	9,326,923	180,261	121,604	111,028	74,308	77,451	144,353	248,730
24	2007	Waller	1,426,284	27,566	18,596	16,978	11,363	11,844	22,075	38,036

Table 13
Saturday In-School Episode Hourly VMT by Year and County (continued)

OBS	SAVMT08	SAVMT09	SAVMT10	SAVMT11	SAVMT12	SAVMT13	SAVMT14	SAVMT15	SAVMT16
1	169,350	206,442	240,559	269,250	290,623	305,741	305,083	305,727	307,581
2	65,253	79,545	92,690	103,745	111,981	117,806	117,552	117,800	118,515
3	219,770	267,905	312,179	349,413	377,150	396,769	395,915	396,750	399,157
4	196,172	239,138	278,658	311,894	336,652	354,165	353,403	354,148	356,296
5	2,886,918	3,519,226	4,100,820	4,589,924	4,954,273	5,211,992	5,200,776	5,211,748	5,243,363
6	63,716	77,671	90,507	101,302	109,343	115,031	114,784	115,026	115,724
7	222,791	271,587	316,470	354,216	382,334	402,222	401,357	402,203	404,643
8	49,585	60,445	70,434	78,835	85,093	89,519	89,327	89,515	90,058
9	177,885	216,846	252,682	282,820	305,270	321,150	320,459	321,135	323,083
10	70,067	85,413	99,529	111,400	120,243	126,498	126,225	126,492	127,259
11	216,057	263,378	306,905	343,509	370,777	390,065	389,225	390,047	392,413
12	195,941	238,857	278,331	311,527	336,256	353,748	352,987	353,732	355,877
13	2,883,771	3,515,391	4,096,350	4,584,921	4,948,874	5,206,311	5,195,108	5,206,068	5,237,649
14	64,735	78,914	91,955	102,923	111,093	116,872	116,621	116,867	117,575
15	230,789	281,338	327,832	366,932	396,060	416,662	415,766	416,643	419,170
16	54,745	66,736	77,765	87,040	93,949	98,836	98,623	98,831	99,431
17	179,689	219,045	255,245	285,688	308,366	324,407	323,709	324,392	326,360
18	92,105	112,278	130,834	146,438	158,062	166,285	165,927	166,277	167,286
19	292,481	356,541	415,464	465,016	501,930	528,040	526,903	528,015	531,218
20	168,770	205,735	239,736	268,329	289,629	304,695	304,040	304,681	306,529
21	3,112,424	3,794,124	4,421,148	4,948,458	5,341,268	5,619,117	5,607,025	5,618,854	5,652,939
22	73,662	89,795	104,635	117,115	126,411	132,987	132,701	132,981	133,788
23	331,302	403,865	470,609	526,738	568,551	598,126	596,839	598,098	601,726
24	50,663	61,760	71,966	80,549	86,943	91,466	91,269	91,462	92,017

Table 13
Saturday In-School Episode Hourly VMT by Year and County (continued)

OBS	SAVMT17	SAVMT18	SAVMT19	SAVMT20	SAVMT21	SAVMT22	SAVMT23	SAVMT24
1	302,208	299,210	286,985	252,625	218,575	197,293	178,923	141,860
2	116,445	115,289	110,579	97,340	84,220	76,019	68,941	54,660
3	392,184	388,292	372,429	327,839	283,651	256,032	232,193	184,095
4	350,072	346,599	332,438	292,636	253,193	228,540	207,261	164,328
5	5,151,768	5,100,647	4,892,262	4,306,523	3,726,067	3,363,262	3,050,115	2,418,295
6	113,702	112,574	107,975	95,047	82,236	74,229	67,318	53,373
7	397,575	393,630	377,548	332,345	287,550	259,551	235,385	186,626
8	88,485	87,607	84,028	73,967	63,998	57,766	52,388	41,536
9	317,439	314,289	301,449	265,357	229,591	207,236	187,941	149,009
10	125,036	123,795	118,738	104,521	90,433	81,628	74,028	58,693
11	385,558	381,732	366,136	322,300	278,858	251,706	228,270	180,985
12	349,661	346,191	332,047	292,292	252,896	228,271	207,017	164,134
13	5,146,153	5,095,088	4,886,930	4,301,829	3,722,006	3,359,597	3,046,791	2,415,659
14	115,522	114,375	109,702	96,568	83,552	75,417	68,395	54,227
15	411,848	407,761	391,102	344,277	297,873	268,869	243,835	193,326
16	97,694	96,725	92,773	81,665	70,658	63,778	57,840	45,859
17	320,659	317,477	304,507	268,049	231,920	209,338	189,847	150,521
18	164,363	162,732	156,084	137,396	118,877	107,302	97,312	77,154
19	521,938	516,759	495,647	436,304	377,497	340,740	309,015	245,003
20	301,175	298,186	286,004	251,761	217,827	196,618	178,311	141,375
21	5,554,189	5,499,075	5,274,412	4,642,920	4,017,123	3,625,978	3,288,370	2,607,195
22	131,451	130,146	124,829	109,884	95,073	85,816	77,826	61,704
23	591,215	585,348	561,434	494,215	427,602	385,967	350,030	277,523
24	90,409	89,512	85,855	75,576	65,389	59,022	53,527	42,439

Table 14
Sunday In-School Episode Hourly VMT by Year and County

OBS	YEAR	COUNTY	SUVMT	SUVMT01	SUVMT02	SUVMT03	SUVMT04	SUVMT05	SUVMT06	SUVMT07
1	1998	Brazoria	3,919,041	105,093	73,517	68,662	42,067	32,254	42,796	64,131
2	1998	Chambers	1,510,055	40,494	28,327	26,456	16,209	12,428	16,490	24,711
3	1998	Fort Bend	5,085,846	136,382	95,405	89,104	54,591	41,857	55,537	83,225
4	1998	Galveston	4,539,741	121,738	85,161	79,536	48,730	37,362	49,574	74,288
5	1998	Harris	66,808,170	1,791,528	1,253,254	1,170,479	717,119	549,831	729,545	1,093,249
6	1998	Liberty	1,474,492	39,540	27,660	25,833	15,827	12,135	16,101	24,129
7	1998	Montgomery	5,155,752	138,257	96,717	90,329	55,342	42,432	56,301	84,369
8	1998	Waller	1,147,473	30,771	21,525	20,104	12,317	9,444	12,530	18,777
9	2000	Brazoria	4,116,553	110,389	77,222	72,122	44,187	33,879	44,953	67,363
10	2000	Chambers	1,621,466	43,481	30,417	28,408	17,405	13,345	17,706	26,534
11	2000	Fort Bend	4,999,915	134,078	93,793	87,599	53,669	41,149	54,599	81,819
12	2000	Galveston	4,534,402	121,595	85,061	79,443	48,672	37,318	49,516	74,201
13	2000	Harris	66,735,356	1,789,575	1,251,889	1,169,203	716,337	549,232	728,750	1,092,057
14	2000	Liberty	1,498,085	40,173	28,103	26,246	16,080	12,329	16,359	24,515
15	2000	Montgomery	5,340,848	143,220	100,189	93,572	57,329	43,955	58,322	87,398
16	2000	Waller	1,266,897	33,973	23,766	22,196	13,599	10,427	13,835	20,732
17	2007	Brazoria	4,158,288	111,509	78,005	72,853	44,635	34,223	45,409	68,046
18	2007	Chambers	2,131,455	57,157	39,984	37,343	22,879	17,542	23,275	34,879
19	2007	Fort Bend	6,768,467	181,503	126,970	118,584	72,653	55,704	73,912	110,759
20	2007	Galveston	3,905,615	104,733	73,265	68,426	41,923	32,143	42,649	63,911
21	2007	Harris	72,026,427	1,931,461	1,351,144	1,261,903	773,132	592,777	786,529	1,178,640
22	2007	Liberty	1,704,644	45,712	31,977	29,865	18,298	14,029	18,615	27,895
23	2007	Montgomery	7,666,844	205,594	143,822	134,323	82,296	63,098	83,722	125,460
24	2007	Waller	1,172,423	31,440	21,993	20,541	12,585	9,649	12,803	19,186

Table 14
Sunday In-School Episode Hourly VMT by Year and County (continued)

OBS	SUVMT08	SUVMT09	SUVMT10	SUVMT11	SUVMT12	SUVMT13	SUVMT14	SUVMT15	SUVMT16
1	81,277	107,523	160,234	202,113	224,526	258,128	276,136	279,224	277,088
2	31,317	41,430	61,740	77,877	86,513	99,460	106,398	107,588	106,765
3	105,475	139,535	207,940	262,287	291,373	334,979	358,349	362,356	359,585
4	94,150	124,552	185,612	234,124	260,086	299,010	319,870	323,447	320,973
5	1,385,535	1,832,949	2,731,519	3,445,431	3,827,507	4,400,320	4,707,304	4,759,948	4,723,538
6	30,579	40,454	60,286	76,043	84,475	97,117	103,893	105,055	104,251
7	106,925	141,453	210,798	265,892	295,378	339,584	363,274	367,337	364,527
8	23,797	31,482	46,916	59,177	65,740	75,578	80,851	81,755	81,130
23	85,373	112,942	168,309	212,299	235,841	271,137	290,052	293,296	291,053
	33,628	44,487	66,295	83,622	92,895	106,798	114,248	115,526	114,643
	103,693	137,178	204,427	257,856	286,450	329,319	352,294	356,234	353,509
	94,039	124,406	185,394	233,848	259,780	298,658	319,494	323,067	320,596
	1,384,025	1,830,951	2,728,542	3,441,676	3,823,335	4,395,524	4,702,173	4,754,761	4,718,390
	31,069	41,101	61,251	77,259	85,827	98,671	105,555	106,736	105,919
	110,764	146,532	218,366	275,438	305,983	351,775	376,316	380,525	377,614
	26,274	34,759	51,798	65,336	72,582	83,444	89,266	90,264	89,573
	86,239	114,087	170,016	214,451	238,232	273,886	292,993	296,270	294,003
	44,204	58,479	87,147	109,923	122,113	140,388	150,182	151,862	150,700
	140,371	185,700	276,736	349,063	387,772	445,805	476,906	482,240	478,551
	80,999	107,154	159,685	201,420	223,757	257,243	275,190	278,267	276,139
	1,493,756	1,976,117	2,944,872	3,714,547	4,126,466	4,744,021	5,074,982	5,131,739	5,092,484
	35,353	46,769	69,696	87,912	97,661	112,276	120,109	121,452	120,523
	159,003	210,348	313,467	395,394	439,241	504,977	540,206	546,247	542,069
	24,315	32,167	47,936	60,464	67,169	77,222	82,609	83,533	82,894

Table 14
Sunday In-School Episode Hourly VMT by Year and County (continued)

OBS	SUVMT17	SUVMT18	SUVMT19	SUVMT20	SUVMT21	SUVMT22	SUVMT23	SUVMT24
1	273,882	276,571	266,385	228,798	200,016	165,129	126,444	87,050
2	105,530	106,566	102,641	88,159	77,069	63,626	48,720	33,541
3	355,424	358,913	345,695	296,917	259,566	214,292	164,090	112,967
4	317,260	320,374	308,575	265,035	231,695	191,282	146,470	100,837
5	4,668,889	4,714,719	4,541,085	3,900,328	3,409,689	2,814,962	2,155,499	1,483,943
6	103,045	104,056	100,224	86,082	75,254	62,128	47,573	32,751
7	360,310	363,847	350,447	300,998	263,134	217,238	166,345	114,520
8	80,191	80,978	77,996	66,991	58,564	48,349	37,022	25,488
9	287,685	290,509	279,810	240,328	210,097	173,451	132,816	91,437
10	113,316	114,428	110,214	94,663	82,755	68,320	52,315	36,016
11	349,419	352,849	339,854	291,900	255,181	210,671	161,317	111,058
12	316,887	319,997	308,212	264,723	231,422	191,057	146,298	100,718
13	4,663,800	4,709,581	4,536,136	3,896,077	3,405,972	2,811,894	2,153,150	1,482,326
14	104,694	105,721	101,828	87,460	76,458	63,122	48,334	33,275
15	373,245	376,909	363,028	311,804	272,581	225,037	172,317	118,631
16	88,537	89,406	86,114	73,963	64,659	53,381	40,875	28,140
17	290,602	293,455	282,647	242,765	212,227	175,209	134,163	92,364
18	148,957	150,419	144,879	124,436	108,783	89,809	68,769	47,344
19	473,014	477,657	460,066	395,150	345,442	285,189	218,378	150,341
20	272,944	275,623	265,472	228,014	199,331	164,563	126,011	86,752
21	5,033,567	5,082,977	4,895,780	4,204,975	3,676,013	3,034,833	2,323,861	1,599,851
22	119,129	120,298	115,868	99,519	87,000	71,825	54,999	37,864
23	535,797	541,057	521,131	447,598	391,293	323,042	247,363	170,296
24	81,935	82,739	79,692	68,447	59,837	49,400	37,827	26,042

Table 15
Weekday School-Out Episode Hourly VMT by Year and County

OBS	YEAR	COUNTY	WKVMT	WKVMT01	WKVMT02	WKVMT03	WKVMT04	WKVMT05	WKVMT06	WKVMT07
1	1998	Brazoria	5,424,274	53,299	33,582	29,589	25,923	43,145	136,974	320,726
2	1998	Chambers	2,090,040	20,537	12,939	11,401	9,988	16,624	52,778	123,580
3	1998	Fort Bend	7,039,229	69,167	43,580	38,399	33,640	55,990	177,755	416,216
4	1998	Galveston	6,283,374	61,740	38,900	34,276	30,028	49,978	158,668	371,523
5	1998	Harris	92,467,995	908,591	572,469	504,413	441,905	735,490	2,335,002	5,467,448
6	1998	Liberty	2,040,818	20,053	12,635	11,133	9,753	16,233	51,535	120,669
7	1998	Montgomery	7,135,984	70,118	44,179	38,927	34,103	56,760	180,198	421,936
8	1998	Waller	1,588,197	15,606	9,833	8,664	7,590	12,633	40,105	93,907
9	2000	Brazoria	5,697,648	55,985	35,274	31,081	27,229	45,319	143,877	336,891
10	2000	Chambers	2,244,242	22,052	13,894	12,242	10,725	17,851	56,672	132,698
11	2000	Fort Bend	6,920,293	67,999	42,844	37,750	33,072	55,044	174,751	409,183
12	2000	Galveston	6,275,985	61,668	38,855	34,236	29,993	49,919	158,481	371,086
13	2000	Harris	92,367,216	907,600	571,845	503,863	441,423	734,689	2,332,457	5,461,489
14	2000	Liberty	2,073,472	20,374	12,837	11,311	9,909	16,492	52,359	122,600
15	2000	Montgomery	7,392,173	72,635	45,765	40,324	35,327	58,797	186,667	437,084
16	2000	Waller	1,753,490	17,230	10,856	9,565	8,380	13,947	44,279	103,680
17	2007	Brazoria	5,755,464	56,553	35,632	31,396	27,505	45,779	145,337	340,309
18	2007	Chambers	2,950,136	28,988	18,264	16,093	14,099	23,465	74,497	174,436
19	2007	Fort Bend	9,368,199	92,052	57,999	51,104	44,771	74,515	236,566	553,923
20	2007	Galveston	5,405,741	53,117	33,467	29,488	25,834	42,997	136,506	319,631
21	2007	Harris	99,691,388	979,568	617,189	543,817	476,425	792,945	2,517,407	5,894,552
22	2007	Liberty	2,359,389	23,183	14,607	12,870	11,276	18,767	59,579	139,506
23	2007	Montgomery	10,611,637	104,270	65,697	57,886	50,713	84,405	267,965	627,445
24	2007	Waller	1,622,744	15,945	10,046	8,852	7,755	12,907	40,978	95,950

Table 15
Weekday School-Out Episode Hourly VMT by Year and County (continued)

OBS	WKVMT08	WKVMT09	WKVMT10	WKVMT11	WKVMT12	WKVMT13	WKVMT14	WKVMT15	WKVMT16
1	402,953	331,147	283,603	275,889	287,237	293,198	298,525	312,270	341,160
2	155,263	127,595	109,276	106,304	110,676	112,973	115,025	120,322	131,453
3	522,923	429,738	368,039	358,029	372,755	380,491	387,404	405,241	442,732
4	466,773	383,594	328,520	319,585	332,730	339,635	345,806	361,728	395,193
5	6,869,170	5,645,079	4,834,597	4,703,107	4,896,550	4,998,173	5,088,976	5,323,290	5,815,775
6	151,606	124,590	106,702	103,800	108,069	110,312	112,316	117,488	128,357
7	530,111	435,645	373,098	362,950	377,879	385,721	392,729	410,811	448,818
8	117,982	96,958	83,037	80,779	84,101	85,847	87,406	91,431	99,890
9	423,261	347,836	297,896	289,794	301,713	307,975	313,570	328,008	358,354
10	166,718	137,009	117,338	114,147	118,842	121,308	123,512	129,199	141,152
11	514,088	422,477	361,821	351,980	366,457	374,063	380,858	398,394	435,252
12	466,224	383,143	328,134	319,209	332,339	339,236	345,399	361,302	394,728
13	6,861,683	5,638,926	4,829,328	4,697,981	4,891,214	4,992,725	5,083,430	5,317,488	5,809,436
14	154,032	126,583	108,409	105,461	109,799	112,077	114,114	119,368	130,411
15	549,142	451,285	386,492	375,981	391,445	399,569	406,828	425,560	464,931
16	130,261	107,049	91,679	89,186	92,854	94,781	96,503	100,947	110,286
17	427,556	351,365	300,919	292,734	304,775	311,100	316,752	331,336	361,990
18	219,157	180,103	154,245	150,050	156,221	159,464	162,361	169,836	185,549
19	695,935	571,919	489,807	476,485	496,084	506,379	515,579	539,318	589,213
20	401,576	330,015	282,634	274,947	286,256	292,196	297,505	311,203	339,994
21	7,405,774	6,086,060	5,212,265	5,070,503	5,279,058	5,388,619	5,486,516	5,739,134	6,270,090
22	175,272	144,038	123,358	120,003	124,939	127,532	129,849	135,828	148,394
23	788,307	647,830	554,819	539,729	561,929	573,591	584,011	610,901	667,419
24	120,549	99,067	84,844	82,536	85,931	87,714	89,308	93,420	102,062

Table 15
Weekday School-Out Episode Hourly VMT by Year and County (continued)

OBS	WKVMT17	WKVMT18	WKVMT19	WKVMT20	WKVMT21	WKVMT22	WKVMT23	WKVMT24
1	379,574	406,322	333,186	249,620	193,988	173,278	132,097	86,989
2	146,255	156,561	128,381	96,182	74,746	66,766	50,899	33,518
3	492,584	527,295	432,385	323,938	251,744	224,868	171,426	112,888
4	439,692	470,675	385,956	289,155	224,712	200,722	153,019	100,766
5	6,470,633	6,926,593	5,679,847	4,255,285	3,306,933	2,953,890	2,251,873	1,482,909
6	142,810	152,874	125,357	93,916	72,986	65,194	49,700	32,729
7	499,355	534,542	438,328	328,391	255,204	227,959	173,783	114,440
8	111,137	118,969	97,555	73,087	56,799	50,735	38,677	25,470
9	398,704	426,799	349,978	262,200	203,765	182,011	138,755	91,373
10	157,045	168,112	137,853	103,278	80,261	71,692	54,654	35,991
11	484,261	518,385	425,079	318,465	247,490	221,069	168,530	110,981
12	439,175	470,122	385,502	288,815	224,448	200,486	152,839	100,648
13	6,463,581	6,919,043	5,673,656	4,250,647	3,303,329	2,950,671	2,249,419	1,481,293
14	145,095	155,320	127,363	95,419	74,154	66,237	50,495	33,252
15	517,282	553,733	454,064	340,180	264,366	236,143	180,022	118,548
16	122,704	131,350	107,708	80,694	62,710	56,015	42,703	28,121
17	402,750	431,130	353,529	264,861	205,833	183,858	140,163	92,300
18	206,442	220,989	181,212	135,762	105,506	94,242	71,845	47,311
19	655,558	701,753	575,442	431,115	335,035	299,267	228,144	150,238
20	378,278	404,933	332,048	248,767	193,325	172,686	131,646	86,692
21	6,976,104	7,467,682	6,123,543	4,587,698	3,565,263	3,184,641	2,427,784	1,598,751
22	165,103	176,737	144,925	108,577	84,379	75,371	57,458	37,838
23	742,571	794,897	651,820	488,337	379,504	338,989	258,425	170,179
24	113,555	121,557	99,677	74,677	58,034	51,839	39,519	26,024

Table 16
Friday School-Out Episode Hourly VMT by Year and County

OBS	YEAR	COUNTY	FRVMT	FRVMT01	FRVMT02	FRVMT03	FRVMT04	FRVMT05	FRVMT06	FRVMT07
1	1998	Brazoria	5,937,774	60,916	40,549	38,168	30,663	46,819	133,166	304,869
2	1998	Chambers	2,287,898	23,472	15,624	14,707	11,815	18,040	51,311	117,470
3	1998	Fort Bend	7,705,612	79,052	52,622	49,532	39,792	60,759	172,814	395,637
4	1998	Galveston	6,878,203	70,563	46,971	44,213	35,519	54,235	154,257	353,154
5	1998	Harris	101,221,667	1,038,433	691,243	650,653	522,709	798,133	2,270,098	5,197,125
6	1998	Liberty	2,234,016	22,919	15,256	14,360	11,536	17,615	50,102	114,703
7	1998	Montgomery	7,811,526	80,138	53,345	50,212	40,339	61,594	175,189	401,075
8	1998	Waller	1,738,547	17,836	11,873	11,175	8,978	13,708	38,990	89,264
9	2000	Brazoria	6,237,027	63,986	42,593	40,092	32,208	49,179	139,878	320,234
10	2000	Chambers	2,456,698	25,203	16,777	15,792	12,686	19,371	55,096	126,137
11	2000	Fort Bend	7,575,417	77,716	51,733	48,695	39,119	59,732	169,894	388,952
12	2000	Galveston	6,870,114	70,481	46,916	44,161	35,477	54,171	154,076	352,739
13	2000	Harris	101,111,347	1,037,301	690,489	649,944	522,139	797,263	2,267,624	5,191,461
14	2000	Liberty	2,269,762	23,285	15,500	14,590	11,721	17,897	50,904	116,539
15	2000	Montgomery	8,091,968	83,015	55,260	52,015	41,787	63,805	181,479	415,474
16	2000	Waller	1,919,487	19,692	13,108	12,338	9,912	15,135	43,048	98,554
17	2007	Brazoria	6,300,312	64,635	43,025	40,498	32,535	49,678	141,297	323,483
18	2007	Chambers	3,229,414	33,131	22,054	20,759	16,677	25,464	72,426	165,811
19	2007	Fort Bend	10,255,051	105,207	70,032	65,919	52,957	80,861	229,990	526,535
20	2007	Galveston	5,917,482	60,707	40,410	38,038	30,558	46,659	132,711	303,827
21	2007	Harris	109,128,796	1,119,552	745,241	701,480	563,541	860,481	2,447,432	5,603,109
22	2007	Liberty	2,582,743	26,496	17,638	16,602	13,337	20,365	57,923	132,608
23	2007	Montgomery	11,616,201	119,171	79,327	74,669	59,986	91,594	260,517	596,422
24	2007	Waller	1,776,363	18,224	12,131	11,418	9,173	14,007	39,838	91,206

Table 16
Friday School-Out Episode Hourly VMT by Year and County (continued)

OBS	FRVMT08	FRVMT09	FRVMT10	FRVMT11	FRVMT12	FRVMT13	FRVMT14	FRVMT15	FRVMT16
1	401,993	332,961	292,275	297,655	317,368	325,046	329,647	345,305	377,607
2	154,893	128,294	112,617	114,690	122,286	125,244	127,017	133,050	145,497
3	521,678	432,092	379,293	386,275	411,857	421,821	427,792	448,112	490,031
4	465,661	385,695	338,566	344,797	367,633	376,527	381,857	399,995	437,412
5	6,852,808	5,676,005	4,982,434	5,074,141	5,410,197	5,541,076	5,619,523	5,886,445	6,437,091
6	151,245	125,272	109,965	111,989	119,406	122,295	124,026	129,917	142,070
7	528,848	438,031	384,507	391,584	417,518	427,619	433,672	454,271	496,766
8	117,701	97,489	85,577	87,152	92,924	95,172	96,519	101,103	110,561
9	422,253	349,741	307,005	312,656	333,363	341,427	346,261	362,708	396,637
10	166,321	137,759	120,926	123,152	131,308	134,485	136,388	142,867	156,231
11	512,863	424,791	372,885	379,748	404,898	414,693	420,564	440,541	481,751
12	465,114	385,242	338,168	344,392	367,201	376,084	381,408	399,525	436,898
13	6,845,339	5,669,819	4,977,004	5,068,611	5,404,300	5,535,037	5,613,399	5,880,029	6,430,075
14	153,665	127,277	111,724	113,781	121,317	124,251	126,010	131,996	144,343
15	547,834	453,757	398,311	405,642	432,508	442,970	449,242	470,580	514,601
16	129,951	107,635	94,483	96,222	102,595	105,077	106,564	111,626	122,068
17	426,537	353,290	310,120	315,828	336,745	344,892	349,774	366,388	400,662
18	218,635	181,089	158,961	161,887	172,609	176,785	179,287	187,803	205,371
19	694,277	575,052	504,784	514,075	548,122	561,382	569,330	596,372	652,160
20	400,619	331,823	291,276	296,637	316,283	323,935	328,521	344,125	376,316
21	7,388,129	6,119,397	5,371,647	5,470,517	5,832,825	5,973,929	6,058,503	6,346,276	6,939,937
22	174,854	144,827	127,130	129,470	138,045	141,385	143,386	150,197	164,247
23	786,428	651,378	571,784	582,309	620,874	635,894	644,897	675,529	738,721
24	120,262	99,610	87,438	89,047	94,945	97,242	98,618	103,303	112,966

Table 16
Friday School-Out Episode Hourly VMT by Year and County (continued)

OBS	FRVMT17	FRVMT18	FRVMT19	FRVMT20	FRVMT21	FRVMT22	FRVMT23	FRVMT24
1	397,867	407,414	354,390	297,892	239,696	218,249	193,269	153,990
2	153,303	156,982	136,551	114,782	92,358	84,094	74,469	59,334
3	516,322	528,713	459,902	386,583	311,060	283,227	250,810	199,837
4	460,881	471,941	410,519	345,073	277,659	252,815	223,879	178,379
5	6,782,459	6,945,223	6,041,314	5,078,190	4,086,116	3,720,504	3,294,664	2,625,083
6	149,692	153,285	133,335	112,078	90,183	82,114	72,715	57,937
7	523,419	535,980	466,223	391,896	315,336	287,120	254,257	202,584
8	116,493	119,289	103,763	87,221	70,182	63,902	56,588	45,087
9	417,918	427,947	372,251	312,905	251,776	229,248	203,009	161,751
10	164,613	168,564	146,626	123,250	99,172	90,298	79,963	63,712
11	507,598	519,780	452,131	380,051	305,804	278,442	246,572	196,461
12	460,339	471,386	410,036	344,667	277,333	252,518	223,615	178,170
13	6,775,067	6,937,654	6,034,730	5,072,655	4,081,663	3,716,449	3,291,073	2,622,222
14	152,088	155,737	135,468	113,872	91,626	83,427	73,878	58,864
15	542,210	555,222	482,961	405,966	326,657	297,428	263,385	209,857
16	128,617	131,704	114,563	96,299	77,486	70,553	62,477	49,780
17	422,159	432,290	376,028	316,080	254,331	231,574	205,069	163,392
18	216,390	221,583	192,744	162,016	130,365	118,700	105,114	83,752
19	687,150	703,640	612,062	514,486	413,976	376,935	333,792	265,954
20	396,507	406,022	353,179	296,874	238,877	217,503	192,608	153,464
21	7,312,284	7,487,763	6,513,243	5,474,883	4,405,311	4,011,138	3,552,033	2,830,146
22	173,059	177,212	154,148	129,574	104,260	94,931	84,066	66,981
23	778,355	797,034	693,301	582,773	468,923	426,965	378,096	301,255
24	119,027	121,883	106,020	89,118	71,708	65,292	57,819	46,068

Table 17
Saturday School-Out Episode Hourly VMT by Year and County

OBS	YEAR	COUNTY	SAVMT	SAVMT01	SAVMT02	SAVMT03	SAVMT04	SAVMT05	SAVMT06	SAVMT07
1	1998	Brazoria	4,864,440	101,905	66,867	61,584	39,266	40,667	76,255	129,049
2	1998	Chambers	1,874,329	39,265	25,765	23,729	15,130	15,669	29,382	49,724
3	1998	Fort Bend	6,312,717	132,245	86,775	79,919	50,956	52,774	98,958	167,470
4	1998	Galveston	5,634,873	118,045	77,457	71,337	45,485	47,108	88,332	149,488
5	1998	Harris	82,924,461	1,737,185	1,139,880	1,049,824	669,366	693,248	1,299,924	2,199,903
6	1998	Liberty	1,830,187	38,341	25,158	23,170	14,773	15,300	28,690	48,553
7	1998	Montgomery	6,399,486	134,063	87,967	81,017	51,657	53,500	100,318	169,772
8	1998	Waller	1,424,281	29,837	19,578	18,031	11,497	11,907	22,327	37,785
9	2000	Brazoria	5,109,599	107,041	70,237	64,688	41,245	42,716	80,098	135,553
10	2000	Chambers	2,012,616	42,162	27,665	25,480	16,246	16,825	31,550	53,393
11	2000	Fort Bend	6,206,056	130,011	85,308	78,569	50,095	51,883	97,286	164,640
12	2000	Galveston	5,628,247	117,906	77,366	71,254	45,431	47,052	88,228	149,312
13	2000	Harris	82,834,083	1,735,291	1,138,637	1,048,679	668,637	692,493	1,298,507	2,197,505
14	2000	Liberty	1,859,471	38,954	25,560	23,541	15,010	15,545	29,149	49,330
15	2000	Montgomery	6,629,233	138,876	91,125	83,926	53,511	55,420	103,920	175,867
16	2000	Waller	1,572,514	32,943	21,616	19,908	12,693	13,146	24,651	41,717
17	2007	Brazoria	5,161,391	108,126	70,948	65,343	41,663	43,149	80,910	136,927
18	2007	Chambers	2,645,626	55,423	36,367	33,494	21,355	22,117	41,473	70,186
19	2007	Fort Bend	8,401,222	175,997	115,483	106,359	67,815	70,234	131,698	222,876
20	2007	Galveston	4,847,765	101,556	66,637	61,373	39,131	40,527	75,994	128,606
21	2007	Harris	89,401,342	1,872,869	1,228,911	1,131,821	721,648	747,395	1,401,455	2,371,728
22	2007	Liberty	2,115,855	44,325	29,085	26,787	17,079	17,689	33,168	56,132
23	2007	Montgomery	9,516,315	199,357	130,811	120,477	76,816	79,556	149,178	252,458
24	2007	Waller	1,455,246	30,486	20,004	18,423	11,747	12,166	22,812	38,606

Table 17
Saturday School-Out Episode Hourly VMT by Year and County (continued)

OBS	SAVMT08	SAVMT09	SAVMT10	SAVMT11	SAVMT12	SAVMT13	SAVMT14	SAVMT15	SAVMT16
1	165,751	200,381	238,922	269,573	291,589	305,711	305,443	310,055	311,908
2	63,866	77,209	92,060	103,870	112,353	117,794	117,691	119,468	120,182
3	215,100	260,040	310,055	349,832	378,403	396,729	396,382	402,366	404,771
4	192,003	232,117	276,762	312,268	337,771	354,129	353,819	359,161	361,308
5	2,825,568	3,415,907	4,072,918	4,595,425	4,970,741	5,211,471	5,206,910	5,285,522	5,317,116
6	62,362	75,391	89,891	101,423	109,707	115,020	114,919	116,654	117,352
7	218,056	263,614	314,317	354,640	383,604	402,182	401,830	407,897	410,335
8	48,531	58,670	69,955	78,929	85,376	89,510	89,432	90,782	91,325
9	174,104	210,480	250,963	283,159	306,285	321,118	320,837	325,681	327,627
10	68,578	82,906	98,852	111,533	120,642	126,485	126,374	128,282	129,049
11	211,465	255,646	304,817	343,921	372,010	390,026	389,684	395,568	397,932
12	191,777	231,844	276,437	311,901	337,374	353,713	353,403	358,739	360,883
13	2,822,489	3,412,184	4,068,479	4,590,416	4,965,323	5,205,791	5,201,235	5,279,762	5,311,321
14	63,360	76,597	91,330	103,046	111,462	116,860	116,758	118,521	119,229
15	225,885	273,078	325,601	367,372	397,376	416,621	416,256	422,541	425,066
16	53,582	64,777	77,236	87,144	94,261	98,826	98,740	100,230	100,830
17	175,869	212,613	253,507	286,029	309,389	324,373	324,089	328,982	330,948
18	90,147	108,981	129,943	146,613	158,587	166,267	166,121	168,630	169,638
19	286,263	346,072	412,634	465,571	503,594	527,983	527,521	535,486	538,686
20	165,183	199,694	238,103	268,649	290,590	304,663	304,396	308,992	310,839
21	3,046,261	3,682,709	4,391,036	4,954,354	5,358,985	5,618,517	5,613,600	5,698,352	5,732,414
22	72,096	87,158	103,922	117,254	126,831	132,973	132,857	134,862	135,669
23	324,259	392,006	467,403	527,366	570,436	598,062	597,539	606,560	610,186
24	49,586	59,946	71,476	80,645	87,232	91,456	91,376	92,756	93,310

Table 17
Saturday School-Out Episode Hourly VMT by Year and County (continued)

OBS	SAVMT17	SAVMT18	SAVMT19	SAVMT20	SAVMT21	SAVMT22	SAVMT23	SAVMT24
1	305,492	301,814	293,370	256,901	223,468	216,404	198,586	153,483
2	117,710	116,293	113,039	98,987	86,105	83,383	76,518	59,139
3	396,445	391,673	380,714	333,387	290,000	280,834	257,710	199,179
4	353,876	349,616	339,834	297,589	258,860	250,679	230,038	177,792
5	5,207,739	5,145,048	5,001,091	4,379,407	3,809,467	3,689,061	3,385,308	2,616,433
6	114,938	113,554	110,377	96,656	84,077	81,420	74,716	57,746
7	401,894	397,056	385,947	337,970	293,986	284,694	261,253	201,917
8	89,446	88,370	85,897	75,219	65,430	63,362	58,145	44,939
9	320,888	317,025	308,155	269,848	234,730	227,311	208,594	161,218
10	126,394	124,873	121,379	106,290	92,458	89,535	82,163	63,502
11	389,747	385,055	374,281	327,754	285,100	276,089	253,356	195,813
12	353,460	349,205	339,434	297,239	258,556	250,384	229,768	177,582
13	5,202,063	5,139,441	4,995,641	4,374,634	3,805,315	3,685,040	3,381,619	2,613,581
14	116,777	115,371	112,143	98,202	85,422	82,722	75,911	58,670
15	416,322	411,311	399,802	350,103	304,540	294,915	270,632	209,166
16	98,755	97,567	94,837	83,048	72,240	69,956	64,196	49,616
17	324,140	320,238	311,278	272,583	237,109	229,615	210,709	162,852
18	166,148	164,148	159,555	139,721	121,537	117,696	108,005	83,475
19	527,605	521,254	506,669	443,685	385,944	373,745	342,972	265,075
20	304,445	300,780	292,364	256,020	222,701	215,663	197,905	152,957
21	5,614,494	5,546,906	5,391,706	4,721,464	4,107,008	3,977,198	3,649,720	2,820,791
22	132,878	131,278	127,605	111,743	97,200	94,128	86,378	66,759
23	597,634	590,440	573,919	502,576	437,170	423,352	388,494	300,259
24	91,391	90,291	87,764	76,854	66,853	64,740	59,409	45,916

Table 18
Sunday School-Out Episode Hourly VMT by Year and County

OBS	YEAR	COUNTY	SUVMT	SUVMT01	SUVMT02	SUVMT03	SUVMT04	SUVMT05	SUVMT06	SUVMT07
1	1998	Brazoria	4,092,555	109,635	78,201	75,598	44,408	34,287	45,084	67,928
2	1998	Chambers	1,576,912	42,244	30,132	29,129	17,111	13,211	17,371	26,174
3	1998	Fort Bend	5,311,021	142,277	101,483	98,105	57,630	44,496	58,506	88,152
4	1998	Galveston	4,740,737	127,000	90,586	87,571	51,442	39,718	52,224	78,687
5	1998	Harris	69,766,082	1,868,964	1,333,090	1,288,719	757,032	584,500	768,543	1,157,977
6	1998	Liberty	1,539,775	41,249	29,422	28,443	16,708	12,900	16,962	25,557
7	1998	Montgomery	5,384,021	144,233	102,878	99,454	58,422	45,107	59,310	89,364
8	1998	Waller	1,198,277	32,101	22,897	22,135	13,003	10,039	13,200	19,889
9	2000	Brazoria	4,298,812	115,161	82,142	79,408	46,646	36,015	47,356	71,352
10	2000	Chambers	1,693,256	45,361	32,355	31,278	18,374	14,186	18,653	28,105
11	2000	Fort Bend	5,221,285	139,873	99,768	96,448	56,656	43,744	57,518	86,663
12	2000	Galveston	4,735,162	126,850	90,479	87,468	51,381	39,671	52,163	78,594
13	2000	Harris	69,690,045	1,866,927	1,331,637	1,287,315	756,207	583,863	767,706	1,156,715
14	2000	Liberty	1,564,412	41,909	29,893	28,898	16,975	13,107	17,234	25,966
15	2000	Montgomery	5,577,313	149,411	106,571	103,024	60,519	46,727	61,440	92,572
16	2000	Waller	1,322,989	35,442	25,280	24,438	14,356	11,084	14,574	21,959
17	2007	Brazoria	4,342,376	116,328	82,974	80,212	47,119	36,380	47,836	72,075
18	2007	Chambers	2,225,815	59,627	42,531	41,115	24,152	18,648	24,520	36,944
19	2007	Fort Bend	7,068,109	189,348	135,057	130,562	76,696	59,217	77,862	117,316
20	2007	Galveston	4,078,518	109,259	77,932	75,338	44,256	34,170	44,929	67,695
21	2007	Harris	75,215,056	2,014,936	1,437,209	1,389,373	816,159	630,152	828,569	1,248,419
22	2007	Liberty	1,780,109	47,687	34,014	32,882	19,316	14,914	19,610	29,546
23	2007	Montgomery	8,006,257	214,480	152,984	147,892	86,876	67,076	88,197	132,888
24	2007	Waller	1,224,326	32,798	23,394	22,616	13,285	10,257	13,487	20,321

Table 18
Sunday School-Out Episode Hourly VMT by Year and County (continued)

OBS	SUVMT08	SUVMT09	SUVMT10	SUVMT11	SUVMT12	SUVMT13	SUVMT14	SUVMT15	SUVMT16
1	83,901	108,109	162,028	203,858	231,581	264,481	286,061	292,028	293,968
2	32,328	41,656	62,432	78,549	89,231	101,908	110,223	112,522	113,270
3	108,881	140,296	210,269	264,553	300,529	343,225	371,230	378,973	381,491
4	97,190	125,231	187,691	236,146	268,259	306,370	331,368	338,280	340,527
5	1,430,274	1,842,941	2,762,109	3,475,188	3,947,784	4,508,633	4,876,510	4,978,229	5,011,298
6	31,567	40,675	60,961	76,699	87,130	99,508	107,627	109,872	110,602
7	110,378	142,224	213,159	268,189	304,660	347,942	376,332	384,182	386,734
8	24,566	31,654	47,441	59,689	67,806	77,439	83,757	85,504	86,072
9	88,130	113,557	170,194	214,132	243,253	277,811	300,478	306,746	308,784
10	34,713	44,729	67,038	84,344	95,815	109,427	118,355	120,824	121,627
11	107,042	137,925	206,716	260,083	295,452	337,426	364,957	372,570	375,045
12	97,076	125,084	187,470	235,868	267,944	306,010	330,978	337,882	340,127
13	1,428,716	1,840,932	2,759,099	3,471,401	3,943,481	4,503,719	4,871,195	4,972,803	5,005,836
14	32,072	41,326	61,937	77,926	88,524	101,100	109,349	111,630	112,372
15	114,340	147,330	220,811	277,817	315,598	360,434	389,843	397,975	400,618
16	27,123	34,948	52,378	65,901	74,863	85,498	92,474	94,403	95,030
17	89,023	114,708	171,919	216,302	245,718	280,626	303,523	309,855	311,913
18	45,631	58,797	88,122	110,872	125,950	143,843	155,580	158,825	159,880
19	144,903	186,711	279,833	352,077	399,956	456,777	494,047	504,352	507,702
20	83,614	107,738	161,473	203,159	230,787	263,574	285,080	291,027	292,960
21	1,541,984	1,986,881	2,977,839	3,746,612	4,256,119	4,860,773	5,257,382	5,367,046	5,402,697
22	36,494	47,023	70,476	88,671	100,729	115,040	124,426	127,021	127,865
23	164,136	211,493	316,976	398,808	453,042	517,404	559,621	571,294	575,089
24	25,100	32,342	48,472	60,986	69,280	79,122	85,578	87,363	87,943

Table 18
Sunday School-Out Episode Hourly VMT by Year and County (continued)

OBS	SUVMT17	SUVMT18	SUVMT19	SUVMT20	SUVMT21	SUVMT22	SUVMT23	SUVMT24
1	289,540	282,431	273,726	233,857	210,914	186,670	141,987	92,271
2	111,563	108,824	105,470	90,108	81,268	71,926	54,709	35,553
3	375,744	366,519	355,222	303,482	273,709	242,246	184,261	119,742
4	335,398	327,163	317,079	270,895	244,319	216,234	164,475	106,885
5	4,935,811	4,814,627	4,666,235	3,986,573	3,595,465	3,182,171	2,420,464	1,572,946
6	108,936	106,261	102,986	87,986	79,354	70,232	53,421	34,716
7	380,909	371,557	360,105	307,654	277,471	245,576	186,793	121,388
8	84,776	82,694	80,146	68,472	61,754	54,656	41,573	27,016
9	304,132	296,665	287,522	245,643	221,544	196,077	149,143	96,921
10	119,794	116,853	113,252	96,756	87,264	77,233	58,746	38,176
11	369,395	360,326	349,220	298,355	269,084	238,153	181,147	117,719
12	335,003	326,778	316,707	270,577	244,031	215,980	164,282	106,759
13	4,930,431	4,809,380	4,661,149	3,982,229	3,591,546	3,178,702	2,417,826	1,571,232
14	110,679	107,962	104,634	89,394	80,624	71,356	54,276	35,271
15	394,584	384,896	373,033	318,699	287,432	254,392	193,499	125,746
16	93,599	91,301	88,487	75,598	68,182	60,344	45,900	29,828
17	307,214	299,672	290,436	248,132	223,789	198,064	150,654	97,903
18	157,472	153,606	148,871	127,188	114,710	101,524	77,222	50,183
19	500,055	487,777	472,743	403,886	364,262	322,391	245,221	159,358
20	288,547	281,463	272,788	233,055	210,190	186,029	141,500	91,954
21	5,321,315	5,190,666	5,030,684	4,297,939	3,876,283	3,430,709	2,609,511	1,695,799
22	125,939	122,847	119,061	101,719	91,740	81,194	61,759	40,134
23	566,427	552,520	535,491	457,494	412,610	365,181	277,769	180,509
24	86,619	84,492	81,888	69,960	63,097	55,844	42,477	27,604

Appendix A

Hourly Weekday VMT Distribution by Station

SCHOOL=In STATION=003	
Variable	Mean
WK HR01	0.007833
WK HR02	0.004403
WK HR03	0.003835
WK HR04	0.004022
WK HR05	0.008600
WK HR06	0.032241
WK HR07	0.074405
WK HR08	0.077306
WK HR09	0.058767
WK HR10	0.048271
WK HR11	0.043255
WK HR12	0.044185
WK HR13	0.046140
WK HR14	0.047129
WK HR15	0.053419
WK HR16	0.064536
WK HR17	0.075980
WK HR18	0.089034
WK HR19	0.073509
WK HR20	0.048428
WK HR21	0.035806
WK HR22	0.027990
WK HR23	0.018944
WK HR24	0.011962
WK TOTAL	1.000000

SCHOOL=In STATION=087	
Variable	Mean
WK HR01	0.007030
WK HR02	0.000703
WK HR03	0.000000
WK HR04	0.000351
WK HR05	0.011951
WK HR06	0.032689
WK HR07	0.059402
WK HR08	0.062566
WK HR09	0.055888
WK HR10	0.056591
WK HR11	0.060105
WK HR12	0.061160
WK HR13	0.059402
WK HR14	0.063269
WK HR15	0.061160
WK HR16	0.063620
WK HR17	0.072408
WK HR18	0.074517
WK HR19	0.066081
WK HR20	0.048155
WK HR21	0.034446
WK HR22	0.021793
WK HR23	0.018278
WK HR24	0.008436
WK TOTAL	1.000000

SCHOOL=In STATION=125	
Variable	Mean
WK HR01	0.014389
WK HR02	0.010913
WK HR03	0.009721
WK HR04	0.009623
WK HR05	0.013584
WK HR06	0.030557
WK HR07	0.052097
WK HR08	0.052502
WK HR09	0.047202
WK HR10	0.051888
WK HR11	0.054370
WK HR12	0.055329
WK HR13	0.057184
WK HR14	0.057902
WK HR15	0.060096
WK HR16	0.064471
WK HR17	0.067100
WK HR18	0.074457
WK HR19	0.059656
WK HR20	0.045762
WK HR21	0.036770
WK HR22	0.031233
WK HR23	0.024804
WK HR24	0.018388
WK TOTAL	1.000000

SCHOOL=In STATION=156	
Variable	Mean
WK HR01	0.009487
WK HR02	0.005705
WK HR03	0.005418
WK HR04	0.003794
WK HR05	0.006201
WK HR06	0.020852
WK HR07	0.056766
WK HR08	0.070976
WK HR09	0.064349
WK HR10	0.057956
WK HR11	0.056774
WK HR12	0.060198
WK HR13	0.059784
WK HR14	0.060918
WK HR15	0.059997
WK HR16	0.058660
WK HR17	0.056731
WK HR18	0.054427
WK HR19	0.057112
WK HR20	0.051497
WK HR21	0.040715
WK HR22	0.036659
WK HR23	0.028132
WK HR24	0.016893
WK TOTAL	1.000000

SCHOOL=In STATION=157	
Variable	Mean
WK HR01	0.009917
WK HR02	0.006237
WK HR03	0.006036
WK HR04	0.005383
WK HR05	0.008946
WK HR06	0.027781
WK HR07	0.058265
WK HR08	0.068512
WK HR09	0.059709
WK HR10	0.054949
WK HR11	0.052997
WK HR12	0.055548
WK HR13	0.056050
WK HR14	0.057526
WK HR15	0.060658
WK HR16	0.065540
WK HR17	0.065446
WK HR18	0.064906
WK HR19	0.058706
WK HR20	0.046812
WK HR21	0.037157
WK HR22	0.032215
WK HR23	0.024554
WK HR24	0.016148
WK TOTAL	1.000000

SCHOOL=In STATION=166	
Variable	Mean
WK HR01	0.008914
WK HR02	0.005173
WK HR03	0.004385
WK HR04	0.003677
WK HR05	0.005807
WK HR06	0.019046
WK HR07	0.055580
WK HR08	0.078843
WK HR09	0.068072
WK HR10	0.049596
WK HR11	0.045176
WK HR12	0.048017
WK HR13	0.050510
WK HR14	0.051684
WK HR15	0.055895
WK HR16	0.064487
WK HR17	0.077414
WK HR18	0.082138
WK HR19	0.066147
WK HR20	0.048878
WK HR21	0.036379
WK HR22	0.032920
WK HR23	0.025448
WK HR24	0.015813
WK TOTAL	1.000000

SCHOOL=In STATION=182	
Variable	Mean
WK HR01	0.007844
WK HR02	0.005262
WK HR03	0.004845
WK HR04	0.004925
WK HR05	0.009496
WK HR06	0.032384
WK HR07	0.072966
WK HR08	0.086656
WK HR09	0.065676
WK HR10	0.049023
WK HR11	0.044916
WK HR12	0.046608
WK HR13	0.046643
WK HR14	0.048387
WK HR15	0.054106
WK HR16	0.066179
WK HR17	0.079803
WK HR18	0.092025
WK HR19	0.059746
WK HR20	0.038632
WK HR21	0.028260
WK HR22	0.024451
WK HR23	0.018894
WK HR24	0.012274
WK TOTAL	1.000000

SCHOOL=In STATION=203	
Variable	Mean
WK HR01	0.006646
WK HR02	0.004661
WK HR03	0.004203
WK HR04	0.004486
WK HR05	0.011744
WK HR06	0.042199
WK HR07	0.080409
WK HR08	0.068500
WK HR09	0.057106
WK HR10	0.053408
WK HR11	0.050149
WK HR12	0.050081
WK HR13	0.050791
WK HR14	0.051861
WK HR15	0.053623
WK HR16	0.060171
WK HR17	0.072742
WK HR18	0.085654
WK HR19	0.069726
WK HR20	0.039290
WK HR21	0.029453
WK HR22	0.023848
WK HR23	0.018546
WK HR24	0.010703
WK TOTAL	1.000000

SCHOOL=In STATION=204	
Variable	Mean
WK HR01	0.008147
WK HR02	0.005250
WK HR03	0.004544
WK HR04	0.003662
WK HR05	0.005831
WK HR06	0.016048
WK HR07	0.047223
WK HR08	0.090827
WK HR09	0.062273
WK HR10	0.048372
WK HR11	0.049026
WK HR12	0.050937
WK HR13	0.053659
WK HR14	0.054068
WK HR15	0.057932
WK HR16	0.066998
WK HR17	0.081872
WK HR18	0.094603
WK HR19	0.061311
WK HR20	0.043927
WK HR21	0.033765
WK HR22	0.026871
WK HR23	0.020217
WK HR24	0.012638
WK TOTAL	1.000000
SCHOOL=In STATION=316	
Variable	Mean
WK HR01	0.009894
WK HR02	0.006300
WK HR03	0.005894
WK HR04	0.005756
WK HR05	0.010113
WK HR06	0.031196
WK HR07	0.067984
WK HR08	0.077433
WK HR09	0.063923
WK HR10	0.052441
WK HR11	0.049485
WK HR12	0.050752
WK HR13	0.052631
WK HR14	0.053220
WK HR15	0.055416
WK HR16	0.060011
WK HR17	0.062498
WK HR18	0.065113
WK HR19	0.060329
WK HR20	0.048847
WK HR21	0.037386
WK HR22	0.032295
WK HR23	0.024431
WK HR24	0.016651
WK TOTAL	1.000000

SCHOOL=Out STATION=003	
Variable	Mean
WK HR01	0.008684
WK HR02	0.004775
WK HR03	0.004101
WK HR04	0.004282
WK HR05	0.008383
WK HR06	0.031104
WK HR07	0.068005
WK HR08	0.078998
WK HR09	0.058635
WK HR10	0.048929
WK HR11	0.045910
WK HR12	0.046644
WK HR13	0.048628
WK HR14	0.048027
WK HR15	0.053091
WK HR16	0.063362
WK HR17	0.074656
WK HR18	0.086720
WK HR19	0.072251
WK HR20	0.048171
WK HR21	0.035001
WK HR22	0.028482
WK HR23	0.020062
WK HR24	0.013098
WK TOTAL	1.000000

SCHOOL=Out STATION=087	
Variable	Mean
WK HR01	0.007605
WK HR02	0.000951
WK HR03	0.000000
WK HR04	0.000000
WK HR05	0.019011
WK HR06	0.038023
WK HR07	0.053232
WK HR08	0.070342
WK HR09	0.051331
WK HR10	0.051331
WK HR11	0.047529
WK HR12	0.054183
WK HR13	0.052281
WK HR14	0.060837
WK HR15	0.060837
WK HR16	0.059886
WK HR17	0.066540
WK HR18	0.074144
WK HR19	0.071293
WK HR20	0.054183
WK HR21	0.044677
WK HR22	0.026616
WK HR23	0.021863
WK HR24	0.013308
WK TOTAL	1.000000

SCHOOL=Out STATION=125	
Variable	Mean
WK HR01	0.014641
WK HR02	0.011371
WK HR03	0.009571
WK HR04	0.009544
WK HR05	0.013119
WK HR06	0.029653
WK HR07	0.050383
WK HR08	0.050900
WK HR09	0.046359
WK HR10	0.051508
WK HR11	0.054606
WK HR12	0.055758
WK HR13	0.056565
WK HR14	0.057902
WK HR15	0.060868
WK HR16	0.064892
WK HR17	0.066970
WK HR18	0.072848
WK HR19	0.059994
WK HR20	0.047497
WK HR21	0.037741
WK HR22	0.032472
WK HR23	0.025721
WK HR24	0.019115
WK TOTAL	1.000000

SCHOOL=Out STATION=156	
Variable	Mean
WK HR01	0.009962
WK HR02	0.006061
WK HR03	0.005623
WK HR04	0.003792
WK HR05	0.006140
WK HR06	0.020935
WK HR07	0.056597
WK HR08	0.071783
WK HR09	0.065383
WK HR10	0.059426
WK HR11	0.057335
WK HR12	0.060689
WK HR13	0.060159
WK HR14	0.061096
WK HR15	0.059352
WK HR16	0.057170
WK HR17	0.057009
WK HR18	0.054080
WK HR19	0.056076
WK HR20	0.049889
WK HR21	0.040738
WK HR22	0.036742
WK HR23	0.026593
WK HR24	0.017369
WK TOTAL	1.000000

SCHOOL=Out STATION=157	
Variable	Mean
WK HR01	0.010544
WK HR02	0.006672
WK HR03	0.006169
WK HR04	0.005417
WK HR05	0.008624
WK HR06	0.026894
WK HR07	0.058259
WK HR08	0.069229
WK HR09	0.060001
WK HR10	0.054825
WK HR11	0.052999
WK HR12	0.055582
WK HR13	0.056346
WK HR14	0.057928
WK HR15	0.060502
WK HR16	0.063819
WK HR17	0.064891
WK HR18	0.064324
WK HR19	0.057677
WK HR20	0.046167
WK HR21	0.037189
WK HR22	0.033127
WK HR23	0.025721
WK HR24	0.017095
WK TOTAL	1.000000

SCHOOL=Out STATION=166	
Variable	Mean
WK HR01	0.010223
WK HR02	0.005703
WK HR03	0.004642
WK HR04	0.003658
WK HR05	0.005572
WK HR06	0.017723
WK HR07	0.052262
WK HR08	0.073562
WK HR09	0.063742
WK HR10	0.049818
WK HR11	0.048007
WK HR12	0.049999
WK HR13	0.053154
WK HR14	0.052989
WK HR15	0.055886
WK HR16	0.063371
WK HR17	0.075457
WK HR18	0.081987
WK HR19	0.068043
WK HR20	0.048669
WK HR21	0.036580
WK HR22	0.034551
WK HR23	0.026913
WK HR24	0.017492
WK TOTAL	1.000000

SCHOOL=Out STATION=182	
Variable	Mean
WK HR01	0.008199
WK HR02	0.005387
WK HR03	0.004843
WK HR04	0.004944
WK HR05	0.009434
WK HR06	0.032641
WK HR07	0.072246
WK HR08	0.084688
WK HR09	0.061217
WK HR10	0.048433
WK HR11	0.046151
WK HR12	0.047292
WK HR13	0.047485
WK HR14	0.049007
WK HR15	0.054761
WK HR16	0.065641
WK HR17	0.079508
WK HR18	0.091805
WK HR19	0.059640
WK HR20	0.039020
WK HR21	0.028859
WK HR22	0.025873
WK HR23	0.019799
WK HR24	0.013125
WK TOTAL	1.000000

SCHOOL=Out STATION=203	
Variable	Mean
WK HR01	0.007366
WK HR02	0.004859
WK HR03	0.004450
WK HR04	0.004501
WK HR05	0.011688
WK HR06	0.041764
WK HR07	0.076315
WK HR08	0.069819
WK HR09	0.055855
WK HR10	0.051815
WK HR11	0.051175
WK HR12	0.050382
WK HR13	0.050996
WK HR14	0.051329
WK HR15	0.053042
WK HR16	0.059308
WK HR17	0.072198
WK HR18	0.085650
WK HR19	0.070586
WK HR20	0.040664
WK HR21	0.028900
WK HR22	0.025549
WK HR23	0.019795
WK HR24	0.011995
WK TOTAL	1.000000

SCHOOL=Out STATION=204

Variable	Mean
WK HR01	0.008443
WK HR02	0.005518
WK HR03	0.004434
WK HR04	0.003614
WK HR05	0.005564
WK HR06	0.015369
WK HR07	0.044166
WK HR08	0.083395
WK HR09	0.058305
WK HR10	0.047602
WK HR11	0.050914
WK HR12	0.053963
WK HR13	0.055720
WK HR14	0.056680
WK HR15	0.059729
WK HR16	0.067182
WK HR17	0.081158
WK HR18	0.092550
WK HR19	0.061362
WK HR20	0.044073
WK HR21	0.035289
WK HR22	0.029098
WK HR23	0.021653
WK HR24	0.014216
WK TOTAL	1.000000

SCHOOL=Out STATION=316

Variable	Mean
WK HR01	0.009883
WK HR02	0.006917
WK HR03	0.006149
WK HR04	0.005914
WK HR05	0.009935
WK HR06	0.029666
WK HR07	0.065368
WK HR08	0.077562
WK HR09	0.064504
WK HR10	0.053461
WK HR11	0.050557
WK HR12	0.052414
WK HR13	0.053400
WK HR14	0.055354
WK HR15	0.055206
WK HR16	0.057979
WK HR17	0.061111
WK HR18	0.063135
WK HR19	0.061181
WK HR20	0.048524
WK HR21	0.037045
WK HR22	0.033015
WK HR23	0.025618
WK HR24	0.016102
WK TOTAL	1.000000

Appendix B

Hourly Friday VMT Distribution by Station

SCHOOL=In STATION=003	
Variable	Mean
FR HR01	0.007098
FR HR02	0.004089
FR HR03	0.003743
FR HR04	0.003812
FR HR05	0.007487
FR HR06	0.025840
FR HR07	0.059703
FR HR08	0.064138
FR HR09	0.049882
FR HR10	0.041929
FR HR11	0.041004
FR HR12	0.043891
FR HR13	0.047297
FR HR14	0.050444
FR HR15	0.059357
FR HR16	0.069290
FR HR17	0.079137
FR HR18	0.087177
FR HR19	0.077572
FR HR20	0.058216
FR HR21	0.042707
FR HR22	0.032471
FR HR23	0.025356
FR HR24	0.018362
FR TOTAL	1.000000

SCHOOL=In STATION=087	
Variable	Mean
FR HR01	0.008677
FR HR02	0.000000
FR HR03	0.000000
FR HR04	0.001085
FR HR05	0.016269
FR HR06	0.036876
FR HR07	0.047722
FR HR08	0.052061
FR HR09	0.045553
FR HR10	0.057484
FR HR11	0.057484
FR HR12	0.055315
FR HR13	0.048807
FR HR14	0.063991
FR HR15	0.056399
FR HR16	0.063991
FR HR17	0.074837
FR HR18	0.072668
FR HR19	0.066161
FR HR20	0.057484
FR HR21	0.045553
FR HR22	0.029284
FR HR23	0.021692
FR HR24	0.020607
FR TOTAL	1.000000

SCHOOL=In STATION=125	
Variable	Mean
FR HR01	0.012084
FR HR02	0.009838
FR HR03	0.008732
FR HR04	0.009104
FR HR05	0.012172
FR HR06	0.024070
FR HR07	0.040262
FR HR08	0.044162
FR HR09	0.040788
FR HR10	0.046047
FR HR11	0.050122
FR HR12	0.052839
FR HR13	0.055140
FR HR14	0.057923
FR HR15	0.061889
FR HR16	0.065329
FR HR17	0.067016
FR HR18	0.071661
FR HR19	0.067739
FR HR20	0.057824
FR HR21	0.048052
FR HR22	0.039112
FR HR23	0.032067
FR HR24	0.026031
FR TOTAL	1.000000

SCHOOL=In STATION=156	
Variable	Mean
FR HR01	0.011230
FR HR02	0.007097
FR HR03	0.006869
FR HR04	0.004298
FR HR05	0.006508
FR HR06	0.020055
FR HR07	0.053923
FR HR08	0.069591
FR HR09	0.062951
FR HR10	0.058405
FR HR11	0.056899
FR HR12	0.059197
FR HR13	0.059266
FR HR14	0.059247
FR HR15	0.057443
FR HR16	0.054278
FR HR17	0.051961
FR HR18	0.052315
FR HR19	0.052904
FR HR20	0.051068
FR HR21	0.042022
FR HR22	0.038502
FR HR23	0.035761
FR HR24	0.028209
FR TOTAL	1.000000

SCHOOL=In STATION=157	
Variable	Mean
FR HR01	0.010044
FR HR02	0.006652
FR HR03	0.006524
FR HR04	0.005699
FR HR05	0.008931
FR HR06	0.025946
FR HR07	0.054356
FR HR08	0.064665
FR HR09	0.056743
FR HR10	0.051493
FR HR11	0.051496
FR HR12	0.055449
FR HR13	0.056736
FR HR14	0.058161
FR HR15	0.060796
FR HR16	0.064347
FR HR17	0.062499
FR HR18	0.060421
FR HR19	0.055559
FR HR20	0.049166
FR HR21	0.041016
FR HR22	0.036279
FR HR23	0.032520
FR HR24	0.024501
FR TOTAL	1.000000

SCHOOL=In STATION=166	
Variable	Mean
FR HR01	0.009009
FR HR02	0.005527
FR HR03	0.004953
FR HR04	0.003849
FR HR05	0.005911
FR HR06	0.017608
FR HR07	0.050658
FR HR08	0.073969
FR HR09	0.063239
FR HR10	0.047745
FR HR11	0.044872
FR HR12	0.049057
FR HR13	0.054282
FR HR14	0.054433
FR HR15	0.058001
FR HR16	0.065918
FR HR17	0.073089
FR HR18	0.073184
FR HR19	0.061962
FR HR20	0.050015
FR HR21	0.039099
FR HR22	0.036277
FR HR23	0.032144
FR HR24	0.025201
FR TOTAL	1.000000

SCHOOL=In STATION=182	
Variable	Mean
FR HR01	0.008463
FR HR02	0.005893
FR HR03	0.005720
FR HR04	0.005626
FR HR05	0.009147
FR HR06	0.027950
FR HR07	0.064461
FR HR08	0.079496
FR HR09	0.058722
FR HR10	0.045851
FR HR11	0.044237
FR HR12	0.047089
FR HR13	0.048867
FR HR14	0.049650
FR HR15	0.056696
FR HR16	0.069735
FR HR17	0.079887
FR HR18	0.082561
FR HR19	0.060292
FR HR20	0.044168
FR HR21	0.033164
FR HR22	0.028197
FR HR23	0.025315
FR HR24	0.018813
FR TOTAL	1.000000

SCHOOL=In STATION=203	
Variable	Mean
FR HR01	0.006529
FR HR02	0.004454
FR HR03	0.004556
FR HR04	0.004420
FR HR05	0.010473
FR HR06	0.033969
FR HR07	0.064538
FR HR08	0.057329
FR HR09	0.050903
FR HR10	0.049475
FR HR11	0.048115
FR HR12	0.048999
FR HR13	0.051345
FR HR14	0.052909
FR HR15	0.056819
FR HR16	0.064538
FR HR17	0.076949
FR HR18	0.081336
FR HR19	0.071407
FR HR20	0.050087
FR HR21	0.035635
FR HR22	0.029209
FR HR23	0.026761
FR HR24	0.019246
FR TOTAL	1.000000

SCHOOL=In STATION=204	
Variable	Mean
FR HR01	0.007285
FR HR02	0.004807
FR HR03	0.004499
FR HR04	0.003456
FR HR05	0.005381
FR HR06	0.014251
FR HR07	0.040914
FR HR08	0.078585
FR HR09	0.053857
FR HR10	0.043063
FR HR11	0.045519
FR HR12	0.049795
FR HR13	0.052315
FR HR14	0.053709
FR HR15	0.059515
FR HR16	0.068353
FR HR17	0.078659
FR HR18	0.086668
FR HR19	0.064706
FR HR20	0.052475
FR HR21	0.041808
FR HR22	0.035075
FR HR23	0.032119
FR HR24	0.023185
FR TOTAL	1.000000

SCHOOL=In STATION=316	
Variable	Mean
FR HR01	0.009330
FR HR02	0.006674
FR HR03	0.006485
FR HR04	0.006201
FR HR05	0.009623
FR HR06	0.027887
FR HR07	0.061900
FR HR08	0.072156
FR HR09	0.060538
FR HR10	0.049866
FR HR11	0.049072
FR HR12	0.051388
FR HR13	0.053212
FR HR14	0.054980
FR HR15	0.055831
FR HR16	0.057523
FR HR17	0.055547
FR HR18	0.058846
FR HR19	0.058374
FR HR20	0.053052
FR HR21	0.042606
FR HR22	0.036839
FR HR23	0.034845
FR HR24	0.027225
FR TOTAL	1.000000

SCHOOL=Out STATION=003	
Variable	Mean
FR HR01	0.008548
FR HR02	0.004749
FR HR03	0.004477
FR HR04	0.004342
FR HR05	0.007527
FR HR06	0.025168
FR HR07	0.055084
FR HR08	0.066549
FR HR09	0.051286
FR HR10	0.045587
FR HR11	0.045248
FR HR12	0.047419
FR HR13	0.050879
FR HR14	0.050879
FR HR15	0.057391
FR HR16	0.069330
FR HR17	0.075775
FR HR18	0.083644
FR HR19	0.072790
FR HR20	0.054338
FR HR21	0.041246
FR HR22	0.033105
FR HR23	0.026321
FR HR24	0.018520
FR TOTAL	1.000000
SCHOOL=Out STATION=087	
Variable	Mean
FR HR01	0.007722
FR HR02	0.003861
FR HR03	0.000000
FR HR04	0.000000
FR HR05	0.015444
FR HR06	0.023166
FR HR07	0.038610
FR HR08	0.057915
FR HR09	0.046332
FR HR10	0.038610
FR HR11	0.042471
FR HR12	0.054054
FR HR13	0.065637
FR HR14	0.057915
FR HR15	0.057915
FR HR16	0.061776
FR HR17	0.073359
FR HR18	0.084942
FR HR19	0.073359
FR HR20	0.069498
FR HR21	0.050193
FR HR22	0.038610
FR HR23	0.023166
FR HR24	0.015444
FR TOTAL	1.000000

SCHOOL=Out STATION=125	
Variable	Mean
FR HR01	0.013361
FR HR02	0.010540
FR HR03	0.008610
FR HR04	0.008907
FR HR05	0.011876
FR HR06	0.021823
FR HR07	0.037708
FR HR08	0.040974
FR HR09	0.041197
FR HR10	0.046170
FR HR11	0.052999
FR HR12	0.055448
FR HR13	0.058121
FR HR14	0.059382
FR HR15	0.063910
FR HR16	0.065469
FR HR17	0.065246
FR HR18	0.068364
FR HR19	0.063985
FR HR20	0.058195
FR HR21	0.047061
FR HR22	0.040603
FR HR23	0.033180
FR HR24	0.026871
FR TOTAL	1.000000

SCHOOL=Out STATION=156	
Variable	Mean
FR HR01	0.012045
FR HR02	0.008024
FR HR03	0.007948
FR HR04	0.004777
FR HR05	0.006627
FR HR06	0.019805
FR HR07	0.053204
FR HR08	0.069139
FR HR09	0.063191
FR HR10	0.058320
FR HR11	0.058207
FR HR12	0.059718
FR HR13	0.056791
FR HR14	0.057263
FR HR15	0.057773
FR HR16	0.054242
FR HR17	0.052449
FR HR18	0.051316
FR HR19	0.054601
FR HR20	0.049806
FR HR21	0.041328
FR HR22	0.039950
FR HR23	0.035211
FR HR24	0.028263
FR TOTAL	1.000000

SCHOOL=Out STATION=157	
Variable	Mean
FR HR01	0.010621
FR HR02	0.007327
FR HR03	0.007088
FR HR04	0.005870
FR HR05	0.008751
FR HR06	0.025307
FR HR07	0.053517
FR HR08	0.063757
FR HR09	0.054430
FR HR10	0.050832
FR HR11	0.051973
FR HR12	0.055930
FR HR13	0.057289
FR HR14	0.057735
FR HR15	0.060257
FR HR16	0.063724
FR HR17	0.061528
FR HR18	0.061191
FR HR19	0.055680
FR HR20	0.048549
FR HR21	0.040124
FR HR22	0.036602
FR HR23	0.034460
FR HR24	0.027460
FR TOTAL	1.000000

SCHOOL=Out STATION=166	
Variable	Mean
FR HR01	0.010255
FR HR02	0.006241
FR HR03	0.005785
FR HR04	0.004083
FR HR05	0.005688
FR HR06	0.015680
FR HR07	0.042057
FR HR08	0.067286
FR HR09	0.057931
FR HR10	0.046776
FR HR11	0.046832
FR HR12	0.051066
FR HR13	0.054263
FR HR14	0.054831
FR HR15	0.057446
FR HR16	0.065127
FR HR17	0.072586
FR HR18	0.073596
FR HR19	0.063840
FR HR20	0.050928
FR HR21	0.041407
FR HR22	0.040466
FR HR23	0.036009
FR HR24	0.029823
FR TOTAL	1.000000

SCHOOL=Out STATION=182	
Variable	Mean
FR HR01	0.009220
FR HR02	0.006302
FR HR03	0.005773
FR HR04	0.005741
FR HR05	0.009268
FR HR06	0.028478
FR HR07	0.062922
FR HR08	0.076921
FR HR09	0.056091
FR HR10	0.045764
FR HR11	0.045027
FR HR12	0.048218
FR HR13	0.049501
FR HR14	0.051777
FR HR15	0.056139
FR HR16	0.069015
FR HR17	0.078252
FR HR18	0.081170
FR HR19	0.058368
FR HR20	0.046085
FR HR21	0.034604
FR HR22	0.029890
FR HR23	0.025785
FR HR24	0.019691
FR TOTAL	1.000000

SCHOOL=Out STATION=203	
Variable	Mean
FR HR01	0.007097
FR HR02	0.005161
FR HR03	0.004839
FR HR04	0.004516
FR HR05	0.010753
FR HR06	0.033333
FR HR07	0.060108
FR HR08	0.057849
FR HR09	0.048925
FR HR10	0.049140
FR HR11	0.050753
FR HR12	0.049570
FR HR13	0.050645
FR HR14	0.054731
FR HR15	0.056559
FR HR16	0.065914
FR HR17	0.074194
FR HR18	0.080323
FR HR19	0.071183
FR HR20	0.051505
FR HR21	0.037634
FR HR22	0.030968
FR HR23	0.024946
FR HR24	0.019355
FR TOTAL	1.000000

SCHOOL=Out STATION=204

Variable	Mean
FR HR01	0.008641
FR HR02	0.005571
FR HR03	0.004748
FR HR04	0.003577
FR HR05	0.005191
FR HR06	0.013451
FR HR07	0.036367
FR HR08	0.069030
FR HR09	0.050166
FR HR10	0.043804
FR HR11	0.048900
FR HR12	0.054407
FR HR13	0.056844
FR HR14	0.056718
FR HR15	0.060643
FR HR16	0.067954
FR HR17	0.078019
FR HR18	0.083019
FR HR19	0.062668
FR HR20	0.052413
FR HR21	0.043741
FR HR22	0.037981
FR HR23	0.032030
FR HR24	0.024118
FR TOTAL	1.000000

SCHOOL=Out STATION=316

Variable	Mean
FR HR01	0.010315
FR HR02	0.006920
FR HR03	0.006920
FR HR04	0.005712
FR HR05	0.010184
FR HR06	0.026799
FR HR07	0.057026
FR HR08	0.073282
FR HR09	0.061498
FR HR10	0.050269
FR HR11	0.051020
FR HR12	0.053631
FR HR13	0.054709
FR HR14	0.054578
FR HR15	0.054023
FR HR16	0.055949
FR HR17	0.055525
FR HR18	0.057842
FR HR19	0.058495
FR HR20	0.053762
FR HR21	0.042631
FR HR22	0.037473
FR HR23	0.033458
FR HR24	0.027975
FR TOTAL	1.000000

Appendix C

Hourly Saturday VMT Distribution by Station

SCHOOL=In STATION=003	
Variable	Mean
SA HR01	0.014261
SA HR02	0.008214
SA HR03	0.005976
SA HR04	0.004904
SA HR05	0.006038
SA HR06	0.012770
SA HR07	0.023292
SA HR08	0.039862
SA HR09	0.047790
SA HR10	0.058751
SA HR11	0.064544
SA HR12	0.067884
SA HR13	0.068620
SA HR14	0.067660
SA HR15	0.067312
SA HR16	0.067333
SA HR17	0.066955
SA HR18	0.064431
SA HR19	0.059538
SA HR20	0.050824
SA HR21	0.042539
SA HR22	0.035766
SA HR23	0.030382
SA HR24	0.024355
SA TOTAL	1.000000

SCHOOL=In STATION=087	
Variable	Mean
SA HR01	0.013902
SA HR02	0.006487
SA HR03	0.007414
SA HR04	0.005561
SA HR05	0.019462
SA HR06	0.034291
SA HR07	0.032437
SA HR08	0.030584
SA HR09	0.046339
SA HR10	0.057461
SA HR11	0.063948
SA HR12	0.063021
SA HR13	0.066728
SA HR14	0.061168
SA HR15	0.063948
SA HR16	0.063948
SA HR17	0.063021
SA HR18	0.066728
SA HR19	0.061168
SA HR20	0.050973
SA HR21	0.043559
SA HR22	0.032437
SA HR23	0.025950
SA HR24	0.019462
SA TOTAL	1.000000

SCHOOL=In STATION=125	
Variable	Mean
SA HR01	0.019437
SA HR02	0.013932
SA HR03	0.011841
SA HR04	0.010544
SA HR05	0.012452
SA HR06	0.018850
SA HR07	0.026238
SA HR08	0.033479
SA HR09	0.042017
SA HR10	0.052733
SA HR11	0.060219
SA HR12	0.063656
SA HR13	0.064255
SA HR14	0.064243
SA HR15	0.064084
SA HR16	0.064842
SA HR17	0.065564
SA HR18	0.063595
SA HR19	0.058237
SA HR20	0.051387
SA HR21	0.043840
SA HR22	0.038397
SA HR23	0.031192
SA HR24	0.024966
SA TOTAL	1.000000

SCHOOL=In STATION=156	
Variable	Mean
SA HR01	0.022244
SA HR02	0.014741
SA HR03	0.014863
SA HR04	0.007467
SA HR05	0.006528
SA HR06	0.012201
SA HR07	0.022868
SA HR08	0.034531
SA HR09	0.045341
SA HR10	0.053296
SA HR11	0.057507
SA HR12	0.061108
SA HR13	0.064185
SA HR14	0.062793
SA HR15	0.062248
SA HR16	0.061875
SA HR17	0.059945
SA HR18	0.059845
SA HR19	0.059723
SA HR20	0.053461
SA HR21	0.044789
SA HR22	0.042264
SA HR23	0.042558
SA HR24	0.033620
SA TOTAL	1.000000

SCHOOL=In STATION=157	
Variable	Mean
SA HR01	0.021438
SA HR02	0.014377
SA HR03	0.013909
SA HR04	0.009241
SA HR05	0.008903
SA HR06	0.016444
SA HR07	0.028679
SA HR08	0.038303
SA HR09	0.045625
SA HR10	0.051112
SA HR11	0.055975
SA HR12	0.060129
SA HR13	0.064325
SA HR14	0.063537
SA HR15	0.063140
SA HR16	0.062238
SA HR17	0.059939
SA HR18	0.059155
SA HR19	0.056321
SA HR20	0.051053
SA HR21	0.045482
SA HR22	0.041745
SA HR23	0.038240
SA HR24	0.030691
SA TOTAL	1.000000

SCHOOL=In STATION=166	
Variable	Mean
SA HR01	0.019563
SA HR02	0.013464
SA HR03	0.012301
SA HR04	0.007476
SA HR05	0.006669
SA HR06	0.012018
SA HR07	0.023906
SA HR08	0.031817
SA HR09	0.040440
SA HR10	0.047351
SA HR11	0.054413
SA HR12	0.058714
SA HR13	0.062884
SA HR14	0.063691
SA HR15	0.064608
SA HR16	0.066704
SA HR17	0.064346
SA HR18	0.063136
SA HR19	0.063565
SA HR20	0.055131
SA HR21	0.048157
SA HR22	0.045328
SA HR23	0.041630
SA HR24	0.032686
SA TOTAL	1.000000

SCHOOL=In STATION=182	
Variable	Mean
SA HR01	0.019426
SA HR02	0.013483
SA HR03	0.012268
SA HR04	0.009131
SA HR05	0.010842
SA HR06	0.022472
SA HR07	0.035325
SA HR08	0.038679
SA HR09	0.042415
SA HR10	0.047630
SA HR11	0.053205
SA HR12	0.057804
SA HR13	0.062426
SA HR14	0.061609
SA HR15	0.062494
SA HR16	0.062516
SA HR17	0.062982
SA HR18	0.062989
SA HR19	0.058975
SA HR20	0.052095
SA HR21	0.046175
SA HR22	0.041057
SA HR23	0.036113
SA HR24	0.027889
SA TOTAL	1.000000

SCHOOL=In STATION=203	
Variable	Mean
SA HR01	0.015183
SA HR02	0.009594
SA HR03	0.007842
SA HR04	0.007383
SA HR05	0.011679
SA HR06	0.025111
SA HR07	0.032619
SA HR08	0.036832
SA HR09	0.044006
SA HR10	0.052640
SA HR11	0.059398
SA HR12	0.062568
SA HR13	0.063027
SA HR14	0.063861
SA HR15	0.062026
SA HR16	0.065070
SA HR17	0.067031
SA HR18	0.066447
SA HR19	0.060107
SA HR20	0.049470
SA HR21	0.043589
SA HR22	0.038542
SA HR23	0.031993
SA HR24	0.023984
SA TOTAL	1.000000

SCHOOL=In STATION=204	
Variable	Mean
SA HR01	0.016283
SA HR02	0.011297
SA HR03	0.009602
SA HR04	0.006266
SA HR05	0.006879
SA HR06	0.012598
SA HR07	0.021915
SA HR08	0.026104
SA HR09	0.033529
SA HR10	0.041425
SA HR11	0.051442
SA HR12	0.060540
SA HR13	0.064368
SA HR14	0.066555
SA HR15	0.068600
SA HR16	0.070208
SA HR17	0.070415
SA HR18	0.070798
SA HR19	0.068021
SA HR20	0.059972
SA HR21	0.052896
SA HR22	0.043973
SA HR23	0.038166
SA HR24	0.028149
SA TOTAL	1.000000

SCHOOL=In STATION=316	
Variable	Mean
SA HR01	0.018287
SA HR02	0.012519
SA HR03	0.010662
SA HR04	0.007614
SA HR05	0.008303
SA HR06	0.014999
SA HR07	0.027519
SA HR08	0.039251
SA HR09	0.047314
SA HR10	0.052492
SA HR11	0.057462
SA HR12	0.062302
SA HR13	0.063711
SA HR14	0.064443
SA HR15	0.063624
SA HR16	0.063646
SA HR17	0.062433
SA HR18	0.063831
SA HR19	0.060347
SA HR20	0.051825
SA HR21	0.042004
SA HR22	0.038279
SA HR23	0.035788
SA HR24	0.031342
SA TOTAL	1.000000

SCHOOL=Out STATION=003	
Variable	Mean
SA HR01	0.015209
SA HR02	0.008534
SA HR03	0.006675
SA HR04	0.004901
SA HR05	0.006844
SA HR06	0.013435
SA HR07	0.022983
SA HR08	0.035910
SA HR09	0.046895
SA HR10	0.059823
SA HR11	0.066413
SA HR12	0.067850
SA HR13	0.068695
SA HR14	0.066582
SA HR15	0.064892
SA HR16	0.065737
SA HR17	0.066160
SA HR18	0.063963
SA HR19	0.058555
SA HR20	0.050399
SA HR21	0.043684
SA HR22	0.038783
SA HR23	0.032869
SA HR24	0.024250
SA TOTAL	1.000000

SCHOOL=Out STATION=087	
Variable	Mean
SA HR01	0.014981
SA HR02	0.014981
SA HR03	0.007491
SA HR04	0.003745
SA HR05	0.014981
SA HR06	0.022472
SA HR07	0.022472
SA HR08	0.041199
SA HR09	0.037453
SA HR10	0.056180
SA HR11	0.052434
SA HR12	0.048689
SA HR13	0.067416
SA HR14	0.067416
SA HR15	0.067416
SA HR16	0.067416
SA HR17	0.067416
SA HR18	0.059925
SA HR19	0.067416
SA HR20	0.052434
SA HR21	0.052434
SA HR22	0.041199
SA HR23	0.033708
SA HR24	0.018727
SA TOTAL	1.000000

SCHOOL=Out STATION=125	
Variable	Mean
SA HR01	0.019321
SA HR02	0.013557
SA HR03	0.009579
SA HR04	0.008930
SA HR05	0.013882
SA HR06	0.017860
SA HR07	0.024436
SA HR08	0.031417
SA HR09	0.040916
SA HR10	0.052119
SA HR11	0.060724
SA HR12	0.064134
SA HR13	0.065270
SA HR14	0.063322
SA HR15	0.064215
SA HR16	0.065595
SA HR17	0.065270
SA HR18	0.061211
SA HR19	0.058208
SA HR20	0.053742
SA HR21	0.046274
SA HR22	0.040753
SA HR23	0.033041
SA HR24	0.026222
SA TOTAL	1.000000

SCHOOL=Out STATION=156	
Variable	Mean
SA HR01	0.023205
SA HR02	0.015514
SA HR03	0.015711
SA HR04	0.007604
SA HR05	0.006398
SA HR06	0.012249
SA HR07	0.022614
SA HR08	0.033658
SA HR09	0.043343
SA HR10	0.052984
SA HR11	0.056644
SA HR12	0.060720
SA HR13	0.063875
SA HR14	0.063174
SA HR15	0.063787
SA HR16	0.062232
SA HR17	0.060325
SA HR18	0.059317
SA HR19	0.061399
SA HR20	0.052218
SA HR21	0.041568
SA HR22	0.042006
SA HR23	0.044154
SA HR24	0.035301
SA TOTAL	1.000000

SCHOOL=Out STATION=157	
Variable	Mean
SA HR01	0.021842
SA HR02	0.014639
SA HR03	0.014255
SA HR04	0.009398
SA HR05	0.008932
SA HR06	0.016738
SA HR07	0.028990
SA HR08	0.038113
SA HR09	0.044095
SA HR10	0.050680
SA HR11	0.055318
SA HR12	0.059955
SA HR13	0.063371
SA HR14	0.062973
SA HR15	0.063618
SA HR16	0.063742
SA HR17	0.060243
SA HR18	0.058528
SA HR19	0.055867
SA HR20	0.049967
SA HR21	0.044616
SA HR22	0.042572
SA HR23	0.039362
SA HR24	0.032186
SA TOTAL	1.000000

SCHOOL=Out STATION=166	
Variable	Mean
SA HR01	0.024884
SA HR02	0.015052
SA HR03	0.013430
SA HR04	0.007703
SA HR05	0.006521
SA HR06	0.011555
SA HR07	0.023195
SA HR08	0.030290
SA HR09	0.038297
SA HR10	0.046237
SA HR11	0.053011
SA HR12	0.057927
SA HR13	0.060579
SA HR14	0.060613
SA HR15	0.064380
SA HR16	0.064245
SA HR17	0.062809
SA HR18	0.061948
SA HR19	0.062590
SA HR20	0.055022
SA HR21	0.047690
SA HR22	0.051237
SA HR23	0.046710
SA HR24	0.034074
SA TOTAL	1.000000

SCHOOL=Out STATION=182	
Variable	Mean
SA HR01	0.019774
SA HR02	0.013510
SA HR03	0.012673
SA HR04	0.009110
SA HR05	0.010975
SA HR06	0.023146
SA HR07	0.036010
SA HR08	0.038712
SA HR09	0.041151
SA HR10	0.047248
SA HR11	0.052532
SA HR12	0.056454
SA HR13	0.060734
SA HR14	0.060853
SA HR15	0.060734
SA HR16	0.063077
SA HR17	0.062001
SA HR18	0.062001
SA HR19	0.058414
SA HR20	0.050667
SA HR21	0.046435
SA HR22	0.043637
SA HR23	0.040051
SA HR24	0.030104
SA TOTAL	1.000000

SCHOOL=Out STATION=203	
Variable	Mean
SA HR01	0.014279
SA HR02	0.009685
SA HR03	0.007698
SA HR04	0.007201
SA HR05	0.013037
SA HR06	0.027067
SA HR07	0.031661
SA HR08	0.033896
SA HR09	0.043084
SA HR10	0.049416
SA HR11	0.055625
SA HR12	0.059349
SA HR13	0.063447
SA HR14	0.062329
SA HR15	0.058977
SA HR16	0.061708
SA HR17	0.067420
SA HR18	0.069282
SA HR19	0.064068
SA HR20	0.051155
SA HR21	0.045195
SA HR22	0.043084
SA HR23	0.035014
SA HR24	0.026322
SA TOTAL	1.000000

SCHOOL=Out STATION=204

Variable	Mean
SA HR01	0.015607
SA HR02	0.010585
SA HR03	0.009250
SA HR04	0.006230
SA HR05	0.006929
SA HR06	0.013382
SA HR07	0.019644
SA HR08	0.023427
SA HR09	0.029243
SA HR10	0.039860
SA HR11	0.052003
SA HR12	0.061284
SA HR13	0.064685
SA HR14	0.066052
SA HR15	0.069263
SA HR16	0.068373
SA HR17	0.071265
SA HR18	0.070979
SA HR19	0.067737
SA HR20	0.061221
SA HR21	0.054641
SA HR22	0.048284
SA HR23	0.039924
SA HR24	0.030134
SA TOTAL	1.000000

SCHOOL=Out STATION=316

Variable	Mean
SA HR01	0.019380
SA HR02	0.013075
SA HR03	0.010947
SA HR04	0.007930
SA HR05	0.008472
SA HR06	0.015241
SA HR07	0.028239
SA HR08	0.037948
SA HR09	0.047426
SA HR10	0.052261
SA HR11	0.060268
SA HR12	0.061854
SA HR13	0.061854
SA HR14	0.063866
SA HR15	0.061352
SA HR16	0.064021
SA HR17	0.061158
SA HR18	0.063479
SA HR19	0.060268
SA HR20	0.051255
SA HR21	0.043016
SA HR22	0.040424
SA HR23	0.037175
SA HR24	0.029090
SA TOTAL	1.000000

Appendix D

Hourly Sunday VMT Distribution by Station

SCHOOL=In STATION=003	
Variable	Mean
SU HR01	0.020514
SU HR02	0.012425
SU HR03	0.008542
SU HR04	0.005889
SU HR05	0.004659
SU HR06	0.007170
SU HR07	0.011519
SU HR08	0.018327
SU HR09	0.028228
SU HR10	0.041262
SU HR11	0.052936
SU HR12	0.059615
SU HR13	0.068506
SU HR14	0.070940
SU HR15	0.074343
SU HR16	0.076634
SU HR17	0.079184
SU HR18	0.080660
SU HR19	0.075508
SU HR20	0.064753
SU HR21	0.053402
SU HR22	0.040964
SU HR23	0.027387
SU HR24	0.016632
SU TOTAL	1.000000

SCHOOL=In STATION=087	
Variable	Mean
SU HR01	0.018405
SU HR02	0.015951
SU HR03	0.011043
SU HR04	0.008589
SU HR05	0.018405
SU HR06	0.031902
SU HR07	0.030675
SU HR08	0.025767
SU HR09	0.034356
SU HR10	0.050307
SU HR11	0.055215
SU HR12	0.071166
SU HR13	0.065031
SU HR14	0.074847
SU HR15	0.068712
SU HR16	0.068712
SU HR17	0.065031
SU HR18	0.063804
SU HR19	0.068712
SU HR20	0.058896
SU HR21	0.039264
SU HR22	0.026994
SU HR23	0.017178
SU HR24	0.011043
SU TOTAL	1.000000

SCHOOL=In STATION=125	
Variable	Mean
SU HR01	0.020563
SU HR02	0.015217
SU HR03	0.012695
SU HR04	0.010534
SU HR05	0.010634
SU HR06	0.013171
SU HR07	0.016802
SU HR08	0.020563
SU HR09	0.028589
SU HR10	0.039022
SU HR11	0.050002
SU HR12	0.058619
SU HR13	0.065392
SU HR14	0.068922
SU HR15	0.072366
SU HR16	0.074355
SU HR17	0.076142
SU HR18	0.075421
SU HR19	0.069628
SU HR20	0.056890
SU HR21	0.048561
SU HR22	0.039757
SU HR23	0.031356
SU HR24	0.024799
SU TOTAL	1.000000

SCHOOL=In STATION=156	
Variable	Mean
SU HR01	0.033768
SU HR02	0.024194
SU HR03	0.023916
SU HR04	0.012218
SU HR05	0.007347
SU HR06	0.008971
SU HR07	0.014713
SU HR08	0.020205
SU HR09	0.027617
SU HR10	0.041644
SU HR11	0.049603
SU HR12	0.057090
SU HR13	0.066905
SU HR14	0.069103
SU HR15	0.069057
SU HR16	0.068333
SU HR17	0.069122
SU HR18	0.068918
SU HR19	0.065365
SU HR20	0.055429
SU HR21	0.049390
SU HR22	0.041236
SU HR23	0.033323
SU HR24	0.022534
SU TOTAL	1.000000

SCHOOL=In STATION=157	
Variable	Mean
SU HR01	0.029940
SU HR02	0.021188
SU HR03	0.020979
SU HR04	0.012285
SU HR05	0.008607
SU HR06	0.010672
SU HR07	0.016003
SU HR08	0.021658
SU HR09	0.029111
SU HR10	0.043321
SU HR11	0.053263
SU HR12	0.055102
SU HR13	0.063796
SU HR14	0.069231
SU HR15	0.069068
SU HR16	0.066893
SU HR17	0.063715
SU HR18	0.066516
SU HR19	0.065026
SU HR20	0.057201
SU HR21	0.051685
SU HR22	0.045137
SU HR23	0.035445
SU HR24	0.024158
SU TOTAL	1.000000

SCHOOL=In STATION=166	
Variable	Mean
SU HR01	0.029544
SU HR02	0.020537
SU HR03	0.020394
SU HR04	0.012097
SU HR05	0.008089
SU HR06	0.009638
SU HR07	0.016529
SU HR08	0.020559
SU HR09	0.025148
SU HR10	0.039382
SU HR11	0.050504
SU HR12	0.055832
SU HR13	0.062630
SU HR14	0.070417
SU HR15	0.072231
SU HR16	0.070991
SU HR17	0.068753
SU HR18	0.067792
SU HR19	0.067025
SU HR20	0.057818
SU HR21	0.051486
SU HR22	0.043935
SU HR23	0.034628
SU HR24	0.024044
SU TOTAL	1.000000

SCHOOL=In STATION=182	
Variable	Mean
SU HR01	0.027049
SU HR02	0.019188
SU HR03	0.017604
SU HR04	0.011537
SU HR05	0.010441
SU HR06	0.015193
SU HR07	0.020852
SU HR08	0.023044
SU HR09	0.028234
SU HR10	0.041943
SU HR11	0.052255
SU HR12	0.053709
SU HR13	0.063224
SU HR14	0.068195
SU HR15	0.067358
SU HR16	0.065714
SU HR17	0.065535
SU HR18	0.067866
SU HR19	0.067268
SU HR20	0.058322
SU HR21	0.052623
SU HR22	0.045988
SU HR23	0.034122
SU HR24	0.022735
SU TOTAL	1.000000

SCHOOL=In STATION=203	
Variable	Mean
SU HR01	0.018562
SU HR02	0.012863
SU HR03	0.010510
SU HR04	0.009255
SU HR05	0.010196
SU HR06	0.016261
SU HR07	0.019503
SU HR08	0.022275
SU HR09	0.029124
SU HR10	0.041359
SU HR11	0.053856
SU HR12	0.062954
SU HR13	0.069124
SU HR14	0.071163
SU HR15	0.071425
SU HR16	0.071686
SU HR17	0.073882
SU HR18	0.077804
SU HR19	0.069961
SU HR20	0.060026
SU HR21	0.051294
SU HR22	0.036549
SU HR23	0.024837
SU HR24	0.015529
SU TOTAL	1.000000

SCHOOL=In STATION=204	
Variable	Mean
SU HR01	0.022863
SU HR02	0.016131
SU HR03	0.014124
SU HR04	0.008713
SU HR05	0.007806
SU HR06	0.011587
SU HR07	0.017827
SU HR08	0.019044
SU HR09	0.023782
SU HR10	0.037272
SU HR11	0.051033
SU HR12	0.063927
SU HR13	0.071552
SU HR14	0.076588
SU HR15	0.078233
SU HR16	0.078051
SU HR17	0.075203
SU HR18	0.073443
SU HR19	0.068199
SU HR20	0.058878
SU HR21	0.050127
SU HR22	0.034838
SU HR23	0.024571
SU HR24	0.016208
SU TOTAL	1.000000
SCHOOL=In STATION=316	
Variable	Mean
SU HR01	0.022048
SU HR02	0.014920
SU HR03	0.013321
SU HR04	0.008775
SU HR05	0.007017
SU HR06	0.010375
SU HR07	0.015190
SU HR08	0.020559
SU HR09	0.027972
SU HR10	0.040326
SU HR11	0.051572
SU HR12	0.058209
SU HR13	0.070436
SU HR14	0.073161
SU HR15	0.071387
SU HR16	0.071909
SU HR17	0.071545
SU HR18	0.071608
SU HR19	0.071751
SU HR20	0.060711
SU HR21	0.049576
SU HR22	0.040231
SU HR23	0.032423
SU HR24	0.024978
SU TOTAL	1.000000

SCHOOL=Out STATION=003	
Variable	Mean
SU HR01	0.017426
SU HR02	0.010757
SU HR03	0.007989
SU HR04	0.005536
SU HR05	0.004089
SU HR06	0.006920
SU HR07	0.011449
SU HR08	0.017803
SU HR09	0.027177
SU HR10	0.039758
SU HR11	0.052466
SU HR12	0.059889
SU HR13	0.068445
SU HR14	0.072534
SU HR15	0.074925
SU HR16	0.076875
SU HR17	0.077630
SU HR18	0.079957
SU HR19	0.074610
SU HR20	0.064293
SU HR21	0.054290
SU HR22	0.044980
SU HR23	0.031392
SU HR24	0.018810
SU TOTAL	1.000000

SCHOOL=Out STATION=087	
Variable	Mean
SU HR01	0.018727
SU HR02	0.014981
SU HR03	0.011236
SU HR04	0.003745
SU HR05	0.022472
SU HR06	0.018727
SU HR07	0.018727
SU HR08	0.026217
SU HR09	0.033708
SU HR10	0.041199
SU HR11	0.059925
SU HR12	0.056180
SU HR13	0.063670
SU HR14	0.071161
SU HR15	0.078652
SU HR16	0.071161
SU HR17	0.067416
SU HR18	0.071161
SU HR19	0.067416
SU HR20	0.059925
SU HR21	0.067416
SU HR22	0.029963
SU HR23	0.014981
SU HR24	0.011236
SU TOTAL	1.000000

SCHOOL=Out STATION=125	
Variable	Mean
SU HR01	0.020893
SU HR02	0.014455
SU HR03	0.012173
SU HR04	0.010008
SU HR05	0.010125
SU HR06	0.012700
SU HR07	0.016855
SU HR08	0.020308
SU HR09	0.027448
SU HR10	0.038567
SU HR11	0.049511
SU HR12	0.058173
SU HR13	0.064259
SU HR14	0.069292
SU HR15	0.073272
SU HR16	0.077544
SU HR17	0.077954
SU HR18	0.074384
SU HR19	0.070346
SU HR20	0.059109
SU HR21	0.049043
SU HR22	0.040089
SU HR23	0.031603
SU HR24	0.021888
SU TOTAL	1.000000

SCHOOL=Out STATION=156	
Variable	Mean
SU HR01	0.031570
SU HR02	0.022664
SU HR03	0.023578
SU HR04	0.012160
SU HR05	0.007441
SU HR06	0.008677
SU HR07	0.015014
SU HR08	0.020190
SU HR09	0.026698
SU HR10	0.039734
SU HR11	0.046337
SU HR12	0.055147
SU HR13	0.065652
SU HR14	0.068373
SU HR15	0.069553
SU HR16	0.071627
SU HR17	0.071817
SU HR18	0.067364
SU HR19	0.065652
SU HR20	0.055014
SU HR21	0.051608
SU HR22	0.045366
SU HR23	0.035243
SU HR24	0.023520
SU TOTAL	1.000000

SCHOOL=Out STATION=157	
Variable	Mean
SU HR01	0.028357
SU HR02	0.021142
SU HR03	0.020734
SU HR04	0.012103
SU HR05	0.009080
SU HR06	0.010850
SU HR07	0.016146
SU HR08	0.021809
SU HR09	0.028630
SU HR10	0.041971
SU HR11	0.051093
SU HR12	0.054537
SU HR13	0.063005
SU HR14	0.069158
SU HR15	0.068641
SU HR16	0.068518
SU HR17	0.064979
SU HR18	0.066000
SU HR19	0.063617
SU HR20	0.055231
SU HR21	0.052481
SU HR22	0.047948
SU HR23	0.038772
SU HR24	0.025199
SU TOTAL	1.000000

SCHOOL=Out STATION=166	
Variable	Mean
SU HR01	0.031112
SU HR02	0.021796
SU HR03	0.022445
SU HR04	0.012359
SU HR05	0.008017
SU HR06	0.009248
SU HR07	0.016257
SU HR08	0.020155
SU HR09	0.023967
SU HR10	0.037711
SU HR11	0.048463
SU HR12	0.054942
SU HR13	0.059609
SU HR14	0.067848
SU HR15	0.071678
SU HR16	0.072806
SU HR17	0.071404
SU HR18	0.065558
SU HR19	0.067917
SU HR20	0.057267
SU HR21	0.050532
SU HR22	0.047301
SU HR23	0.036668
SU HR24	0.024941
SU TOTAL	1.000000

SCHOOL=Out STATION=182	
Variable	Mean
SU HR01	0.025386
SU HR02	0.018731
SU HR03	0.017754
SU HR04	0.011122
SU HR05	0.010168
SU HR06	0.015799
SU HR07	0.021290
SU HR08	0.022803
SU HR09	0.027899
SU HR10	0.040626
SU HR11	0.050957
SU HR12	0.053284
SU HR13	0.061591
SU HR14	0.067222
SU HR15	0.067362
SU HR16	0.066943
SU HR17	0.066920
SU HR18	0.067757
SU HR19	0.067292
SU HR20	0.056961
SU HR21	0.052610
SU HR22	0.049259
SU HR23	0.037020
SU HR24	0.023245
SU TOTAL	1.000000

SCHOOL=Out STATION=203	
Variable	Mean
SU HR01	0.017812
SU HR02	0.013301
SU HR03	0.011682
SU HR04	0.008443
SU HR05	0.011219
SU HR06	0.018043
SU HR07	0.019778
SU HR08	0.020009
SU HR09	0.028452
SU HR10	0.040481
SU HR11	0.052510
SU HR12	0.061416
SU HR13	0.068471
SU HR14	0.070669
SU HR15	0.071825
SU HR16	0.070669
SU HR17	0.075758
SU HR18	0.074948
SU HR19	0.071131
SU HR20	0.060722
SU HR21	0.048924
SU HR22	0.040481
SU HR23	0.026602
SU HR24	0.016655
SU TOTAL	1.000000

SCHOOL=Out STATION=204

Variable	Mean
SU HR01	0.022971
SU HR02	0.015498
SU HR03	0.013174
SU HR04	0.008275
SU HR05	0.007555
SU HR06	0.011541
SU HR07	0.017131
SU HR08	0.017463
SU HR09	0.021504
SU HR10	0.036006
SU HR11	0.050729
SU HR12	0.064512
SU HR13	0.071873
SU HR14	0.076938
SU HR15	0.079207
SU HR16	0.078432
SU HR17	0.076634
SU HR18	0.074143
SU HR19	0.067058
SU HR20	0.058395
SU HR21	0.050785
SU HR22	0.039604
SU HR23	0.025434
SU HR24	0.015139
SU TOTAL	1.000000

SCHOOL=Out STATION=316

Variable	Mean
SU HR01	0.022551
SU HR02	0.015250
SU HR03	0.013401
SU HR04	0.008734
SU HR05	0.007532
SU HR06	0.010444
SU HR07	0.014972
SU HR08	0.020518
SU HR09	0.027819
SU HR10	0.040481
SU HR11	0.050832
SU HR12	0.059196
SU HR13	0.071072
SU HR14	0.073429
SU HR15	0.074492
SU HR16	0.071858
SU HR17	0.071026
SU HR18	0.071811
SU HR19	0.066959
SU HR20	0.058457
SU HR21	0.050786
SU HR22	0.043577
SU HR23	0.033364
SU HR24	0.021442
SU TOTAL	1.000000